CONSTRUCTION NEWS

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close			See Eng. News-Record
Mar.	6	Ferndale, Mich.	Mar. 2
Mar.	6	Hamilton, O.	Mar. 2
Mar.	7	Phila., Pa.	Mar. 2
Mar.	7	Minneapolis, Minn.	Mar. 2
Mar.	9	El Paso, Tex.	Mar. 2
Mar.	9	Long Island City, N. Y.	Mar. 2
Mar.	13	Port Huron, Mich. Adv. Mar. 2.	Mar. 2
Mar.	20	Newburgh, N. Y.	Feb. 23
Mar.	20	New Orleans, La. Adv. Jan. 26 to Mar. 2.	Jan. 26
Mar.	28	Fallon, Nev.	Feb. 23

SEWERS

Mar.	6	Casper, Wyo.	Feb. 16
Mar.	6	Ferndale, Mich.	Mar. 2
Mar.	6	New York, N. Y.	Mar. 2
Mar.	6	Long Island City, N. Y.	Mar. 2
Mar.	7	Paterson, N. J.	Feb. 16
Mar.	7	Ridgefield Park, N. J. Adv. Feb. 16 to Mar. 2.	Feb. 16
Mar.	7	St. Charles, Ill.	Mar. 2
Mar.	7	Phila., Pa.	Mar. 2
Mar.	8	Springwells, Mich.	Feb. 23
Mar.	8	Portland, Ore.	Feb. 23
Mar.	8	Akron, O.	Mar. 2
Mar.	8	Brooklyn, N. Y.	Mar. 2
Mar.	9	Ridgefield, N. J. Adv. Feb. 23 and Mar. 2.	Feb. 23
Mar.	9	Cleveland, O.	Mar. 2
Mar.	13	Annandale, Minn.	Feb. 23
Mar.	13	Englewood, Col.	Mar. 2
Mar.	16	Romeo, Mich.	Mar. 2
Mar.	20	Plainfield, N. J. Adv. Mar. 2.	Mar. 2
Apr.	1	Lima, O. Adv. Mar. 2.	Mar. 2
Apr.	10	Los Angeles, Cal.	Feb. 16

BRIDGES

Mar.	6	Mercer, Pa. Adv. Feb. 9 to Mar. 2.	Feb. 9
Mar.	6	Wayne, W. Va.	Mar. 2
Mar.	7	Missouri	Mar. 2
Mar.	7	Greenfield, Ind.	Feb. 16
Mar.	7	Grand Forks, N. D.	Mar. 2
Mar.	7	Denver, Col.	Mar. 2
Mar.	8	Placerville, Cal.	Feb. 23
Mar.	9	Minnesota	Mar. 2
Mar.	9	Eldorado, Kan.	Mar. 2
Mar.	10	Dayton, O.	Mar. 2
Mar.	14	Holyoke, Mass.	Feb. 9
Mar.	14	Trenton, N. J. Adv. Mar. 2.	Mar. 2
Mar.	14	Rayville, La.	Mar. 2
Mar.	14	Wyoming	Mar. 2
Mar.	15	Guerneville, Cal.	Mar. 2
Mar.	15	North Carolina	Mar. 2
Oct.	31	Sydney, Australia	Jan. 12

DAMS

Mar.	21	Imperial, Neb.	Mar. 2

EXCAVATION AND DREDGING

Mar.	7	Red Oak, Ia.	Feb. 9
Mar.	7	Paradise, Cal.	Feb. 23
Mar.	8	Bemidji, Minn.	Feb. 23
Mar.	8	Olivia, Minn.	Mar. 2
Mar.	10	Madison, Minn.	Mar. 2
Mar.	10	Crookston, Minn.	Mar. 2
Mar.	15	Elk River, Minn.	Feb. 9
Mar.	24	Redwood Falls, Minn.	Mar. 2

STREETS AND ROADS

Mar.	6	Dade City, Fla.	Feb. 2
Mar.	6	Minneapolis, Minn.	Feb. 9
Mar.	6	Ontario	Feb. 16
Mar.	6	Salem, N. J.	Feb. 16
Mar.	6	Nevada	Feb. 23
Mar.	6	San Luis Obispo, Cal.	Feb. 23
Mar.	6	Albert Lea, Minn.	Feb. 23
Mar.	6	Fairfield, Cal.	Feb. 23
Mar.	6	Brooksville, Fla.	Mar. 2
Mar.	6	Ohio	Mar. 2
Mar.	6	Monroe, Mich.	Mar. 2
Mar.	6	New York, N. Y.	Mar. 2
Mar.	6	Virginia Beach, Va.	Mar. 2
Mar.	7	Lake City, Fla.	Feb. 23
Mar.	7	Cincinnati, O.	Feb. 23
Mar.	7	Sanford, N. C. Adv. Feb. 16 to Mar. 2.	Feb. 23
Mar.	7	Waukesha, Wis.	Mar. 2
Mar.	7	Yuba City, Cal.	Feb. 23
Mar.	7	Colorado	Feb. 23
Mar.	7	Missouri	Mar. 2
Mar.	7	Danville, Va.	Mar. 2
Mar.	8	Freehold, N. J. Adv. Feb. 16 to Mar. 2.	Feb. 16
Mar.	8	Mays Landing, N. J. Adv. Feb. 16 to Mar. 2.	Feb. 16
Mar.	8	Freehold, N. J. Adv. Feb. 23 and Mar. 2.	Feb. 23
Mar.	8	Seabright, N. J. Adv. Feb. 23 and Mar. 2.	Feb. 23
Mar.	8	Bemidji, Minn.	Feb. 23
Mar.	8	Missouri	Feb. 23
Mar.	8	Cleveland, O.	Mar. 2
Mar.	8	Oroville, Cal.	Mar. 2
Mar.	8	Independence, Ia.	Mar. 2
Mar.	9	Missouri	Feb. 16
Mar.	9	Kenosha, Wis.	Mar. 2
Mar.	9	Minnesota	Mar. 2
Mar.	10	Missouri	Mar. 2
Mar.	10	Logan, W. Va.	Mar. 2
Mar.	10	Chipley, Fla.	Mar. 2
Mar.	10	Huntington, Ind.	Mar. 2
Mar.	11	West Palm Beach, Fla.	Mar. 2
Mar.	13	Reno, Nev.	Feb. 23
Mar.	13	South Pasadena, Cal.	Mar. 2
Mar.	13	Coleman, Tex.	Mar. 2
Mar.	13	Mason City, Ia.	Mar. 2
Mar.	14	Sheboygan Falls, Wis.	Jan. 26
Mar.	14	Wichita, Kan.	Feb. 16
Mar.	14	New York Adv. Feb. 23 and Mar. 2.	Feb. 23
Mar.	14	Columbia, S. C.	Mar. 2
Mar.	14	Modesto, Cal.	Mar. 2
Mar.	14	Wyoming	Mar. 2
Mar.	14	Wisconsin	Mar. 2
Mar.	15	Pipestone, Minn.	Feb. 23
Mar.	15	Albuquerque, N. M. Adv. Feb. 23 and Mar. 2.	Feb. 23
Mar.	15	Wash., D. C. Adv. Mar. 2.	Mar. 2
Mar.	16	Leavenworth, Kan.	Mar. 2
Mar.	20	Spring Lake, N. J. Adv. Mar. 2.	Mar. 2
Mar.	20	Plainfield, N. J. Adv. Mar. 2	Mar. 2
Mar.	20	Seattle, Wash.	Mar. 2
Mar.	21	Alabama	Mar. 2
Mar.	22	Alabama	Mar. 2
Mar.	22	Fergus Falls, Minn.	Mar. 2
Mar.	27	Babylon, N. Y. Adv. Mar. 2.	Mar. 2
Mar.	28	Alabama	Mar. 2
Mar.	29	Alabama	Mar. 2
Apr.	1	Granfield, Okla.	Feb. 2
Apr.	4	Shawno, Wis.	Feb. 23

INDUSTRIAL WORK

Mar.	10	Westerly, R. I.	Mar. 2
Mar.	10	Milwaukee, Wis.	Mar. 2
Mar.	15	Enfield, N. C. Adv. Feb. 23 and Mar. 2.	Mar. 2
Mar.	20	Camden, N. J.	Feb. 23

BUILDINGS

Mar.	6	Cleveland, O.	Feb. 23
Mar.	6	Avon Lake, O.	Feb. 23
Mar.	6	Dover, O.	Feb. 23
Mar.	6	Brooklyn, N. Y.	Mar. 2
Mar.	6	Worcester, Mass.	Mar. 2
Mar.	7	Duluth, Minn.	Feb. 23
Mar.	7	Pomona, Cal.	Feb. 16
Mar.	7	Cleveland, O.	Mar. 2
Mar.	7	Benton, Ill.	Mar. 2
Mar.	7	Raleigh, N. C.	Mar. 2
Mar.	7	St. Louis, Mo.	Mar. 2
Mar.	8	Clinton, Ind.	Jan. 26
Mar.	8	Pembroke, N. C.	Feb. 23
Mar.	8	New Lebanon, O.	Mar. 2
Mar.	8	Wausau, Wis.	Mar. 2
Mar.	8	Salisbury, N. C.	Mar. 2
Mar.	8	Lansing, Mich.	Mar. 2
Mar.	8	Los Angeles, Cal.	Mar. 2
Mar.	8	Waukegan, Ill.	Mar. 2
Mar.	9	Rockville, Ind.	Feb. 16
Mar.	9	Des Moines, Ia.	Feb. 23
Mar.	9	Painesville, O.	Feb. 23
Mar.	9	Sardis, O.	Mar. 2
Mar.	9	Bath, Mich.	Mar. 2
Mar.	9	Norfolk, Va.	Mar. 2
Mar.	9	Evanston, Ill.	Mar. 2
Mar.	10	Alliance, O.	Feb. 23
Mar.	10	Cudahy, Wis.	Feb. 23
Mar.	10	Norfolk, Va.	Feb. 23
Mar.	10	Summerfield, O.	Mar. 2
Mar.	10	Hudson, N. Y. Adv. Mar. 2	Mar. 2
Mar.	11	Hibbing, Minn.	Mar. 2
Mar.	13	Olympia, Wash.	Feb. 16
Mar.	13	Toledo, O.	Feb. 23
Mar.	14	Dallas, Tex.	Feb. 23
Mar.	15	Albion, Mich.	Mar. 2
Mar.	15	Sparta, Tex.	Feb. 23
Mar.	15	Ann Arbor, Mich.	Mar. 2
Mar.	16	South Bend, Ind.	Feb. 23
Mar.	16	Columbus, O.	Feb. 23
Mar.	16	Collinsville, Ill.	Mar. 2
Mar.	16	Burlingame, Cal.	Mar. 2
Mar.	18	Rock Island, Ill.	Mar. 2
Mar.	21	Carthage, N. C.	Feb. 23
Mar.	22	Chippewa Falls, Wis.	Mar. 2
Mar.	31	Morgantown, W. Va.	Mar 2
Apr.	5	Rockford, Ill.	Mar. 2

FEDERAL GOVERNMENT WORK

Mar.	6	Post Office and Court House —Globe, Ariz.	Feb. 2
Mar.	7	Post Office—Charles Town, W. Va.	Feb. 23
Mar.	8	Carriage House — Norfolk, Va.	Feb. 16
Mar.	8	Barracks, etc.—San Diego, Cal.	Feb. 23
Mar.	9	Water Supply Line—Honolulu, H. T.	Jan. 19
Mar.	10	Changes in Approaches — Plainfield, N. J.	Feb. 23
Mar.	14	Dredging — Jacksonville, Fla. Adv. Feb. 16 to Mar. 2.	Feb. 23
Mar.	15	Steam Supply System — San Diego, Cal.	Feb. 16
Mar.	15	Addition — Mare Island, Cal.	Feb. 23
Mar.	15	Addition — Puget Sound, Wash.	Feb. 23
Mar.	15	Extension to Post Office — Hagerstown, Md.	Feb. 23
Mar.	20	Pumping Unit—Chesapeake City, Md. Adv. Feb. 23 and Mar. 2.	Feb. 23
Mar.	20	Steel Hull—Montgomery, Ala. Adv. Mar. 2	Mar. 2
Mar.	21	Extension to Workroom, etc. —Laredo, Tex.	Mar. 2
Mar.	22	Operating and Power Building, etc.—Tatoosh, Wash.	Feb. 16
Mar.	23	Dredge Tender—Wilmington, N. C. Adv. Feb. 23 and Mar. 2	Feb. 23
Mar.	24	Buildings, etc. — Hoffman Island, N. Y. Adv. Mar. 2.	Mar. 2

MISCELLANEOUS

Mar.	6	Tractor—Quincy, Cal.	Feb. 23
Mar.	6	Heating System — Altoona, Pa.	Feb. 23
Mar.	6	Street Flusher, Truck, etc. —Manitowoc, Wis.	Feb. 23
Mar.	6	Road Oil—St. Paul, Minn.	Feb. 23
Mar.	6	Dump Trucks — Cleveland, O.	Feb. 23
Mar.	6	Steam Shovel—St. Paul, Minn.	Mar. 2
Mar.	6	Grader—Slayton, Minn.	Mar. 2
Mar.	6	Road Signs — St. Paul, Minn.	Mar. 2
Mar.	7	Sand and Stone—Detroit, Mich.	Feb. 23
Mar.	7	Portland Cement—Yuba City, Cal.	Feb. 23
Mar.	7	Tractor—Grand Forks, N. D.	Mar. 2
Mar.	8	Asphalt—Detroit, Mich.	Feb. 23
Mar.	8	Chimney—Hammond, Ind.	Feb. 23
Mar.	8	Tractor—Ada, Minn.	Mar. 2
Mar.	9	Grader—Webster, S. D.	Mar. 2
Mar.	10	Heating and Ventilating Apparatus, etc. — Brooklyn, N. Y.	Mar. 2
Mar.	10	Pier—Portland, Me. Adv. Feb. 16 to Mar. 2.	Feb. 23
Mar.	10	Pipe—Harrisburg, Pa. Adv. Feb. 23 and Mar. 2.	Feb. 23
Mar.	13	Paving Brick, etc.—Jamestown, N. Y.	Mar. 2
Mar.	13	Asphalt Heating Plant—Santa Rosa, Cal.	Mar. 2
Mar.	13	Foundation, etc.—Olympia, Wash.	Mar. 2
Mar.	16	Coal and Ash Handling System, Boilers, Pump and Chimney—Bay City, Mich. Adv. Mar. 2.	Mar. 2

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. Y., Hamburg—Plans pumping station. $75,000. R. W. Hengerer, 12 Buffalo St., pres.

Waterworks (Continued)

N. C., Hendersonville—Having plans prepared waterworks. $350,000 to $400,000. G. C. White Co., Durham, engrs.

N. C., Lexington—Having plans prepared Yadkin River Waterworks. $400,000 bonds issued. G. C. White Co., Durham, engrs.

N. C., Lumberton—See "Streets and Roads."

N. C., Marion—Plans improving and extending waterworks. $20,000. L. A. Neal, clk.

N. C., Kernersville—See "Sewers."

S. C., Walhalla—See "Sewers."

N. C., Taylorsville—See "Sewers."

O., Tippecanoe City—See "Industrial Works."

O., Wellsville—Making preliminary plans 3½ mi. pipe lines, filteration plant, 2,500,000 gal. capacity, and new dam. $300,000. Morris-Knowles, Inc., 1004 Hanna Bldg., Cleveland, engrs. Noted Dec. 29.

Mich., Port Huron—Had plans prepared for new intake well, also 2 intake pipe lines 30 in. diam. extending 150 ft. into St. Clair River. $15,000. Work will probably be done by day labor under direction of D. D. Worcester, city engr.

Ill., Joliet—Plans 6 in. c.i. mains in Rowell Ave. $25,000. A. S. Calkins, Joliet Natl. Bank Bldg., engr.

S. D., DeSmet—Had plans prepared for waterworks and sewerage systems. $80,000. Druar & Milinowski, 500 Globe Bldg., St. Paul, Minn., engrs.

Mo., St. Charles—Making plans improving waterworks and electric light plant. $250,000. Benhan & Mullergren, Firestone Bldg., Kansas City, engrs.

Tex., Waxahachie—Attorney Generals Dept., Austin, approved $37,00 bond issue, improving waterworks. H. R. Helland, city engr.

N. D., Grand Forks—Plans baffle walls in filter plant also other improvements. $15,000. J. J. Smith, city engr.

Mont., Red Lodge—Voted $75,000 bonds improving waterworks. L. B. Evenson, clk. Noted Oct. 27.

Cal., Santa Rosa—Plans to vote on $50,000 bonds for waterworks. C. C. Kennedy, 58 Sutter St., San Francisco, engr.

Ont., Todmorden—R. O. Wynne-Roberts, 40 Jarvis St., Toronto, submitted report for water supply system, incl. c.i. mains, steel reservoir, pumping equipment, etc., costing $900,000; program called for expenditure of $90,000 initially.

BIDS DESIRED

N. Y., Long Island City—March 9, by N. J. Hayes, comr. Water Supply Gas & Electricity, Municipal Bldg., New York, mains and appurtenances in Van Alst, East and Nott Aves., 1st Ward, here.

Pa., Phila.—March 7, by F. C. Caven, dir. pub. wks. water mains in Delaware Ave. from Snyder to Bigler Sts. $40,000. C. Frommer, City Hall, engr.

N. C., Enfield—See "Industrial Works."

O., Hamilton—March 6, 1 centrifugal pump and motor of 2,000 gal. per minute capacity and 1 vertical centrifugal pump and motor of 4,200 gal. per minute capacity. J. W. Moore, 223 Indiana Pythian Bldg., Indianapolis, Ind., consult. engr.

Mich., Ferndale—March 6, by G. Jerome, engr., 1331 Majestic Bldg., Detroit, laying 500 ton 6 in. and 100 ton 8 in. c.i. pipe. Village will furnish pipe. $20,000. Noted Nov. 17.

Mich., Port Huron—March 13, rein.-con. well and intake. E. C. Pitzpatrick, clk.; adv. this issue.

Minn., Minneapolis—March 7, by K. E. Alexander, city purch. agt., two 1,000 gal. per minute electric driven centrifugal pumps, motors, one 130,000 gal. water tank. W. N. Elsberg, city engr. Noted Feb. 16.

Tex., El Paso—March 9, by A. H. Johnson, city purch. agt., 300 ton 6 in. and 275 ton 12 in. Class B bell and spigot c.i. pipe. Cost to exceed $10,000. P. E. French, engr.

BIDS RECEIVED

Pa., Phila.—For pumping station, Contr. 567, from Kober Constr. Co., 34 South 17th St., $15,109. G. H. Evans Inc., 109 North 13th St., $15,440, H. E. Baton, 1713 Sansom St., $16,785; laying 24 in. c.i. pipe, from M. J. McCrudden, Real Estate Trust Bldg., $19,010. F. T. Buckins, Kensington and Deal Sts., $22,615, J. Lombardi, Lincoln Bldg., $25,672.

Wash., Walla Walla—City Water Comn. opened bids Feb. 14, constructing and installing 1st and 3rd parts of 3rd Div. of proposed additions and betterments to and extensions of water system (1) 1st part involves excavating and back filling trench for 11,254 lin.ft. 24 in. pipe within Mill Creek Rd. for connecting distribution system with discharge conduit from proposed reservoir and with present supply conduit, etc., (2) 3rd part, involves hauling from cars and installing of steel pipe, valves and equipment, etc., from Young & McDonald, Portland, Ore., (1) $0.46 per foot, total, $6,400; Mangan & Anderson, Walla Walla, (1) $0.485; L. W. Jackson, Spokane, (1) $0.525, $6,136, (2) $0.38; A. Guthrie & Co., Inc., Sherlock Bldg., Portland, Ore., (2) $0.80; Albina Marine Iron Wks., Lewis and Loring Sts., Portland, Ore., (1) $1.12 total $13,330, (2) $0.8575. Noted Feb. 23.

CONTRACTS AWARDED

O., Delaware—Building and equiping softening and filtration plant, to Burgess & Niple, 141 East Broad St., Columbus. $72,000.

Ill., Winnetka—See "Sewers."

N. D., Fargo—Will remodel, repair and build addition to filtration plant by day labor. $40,000. R. T. Jacobsen, city engr. Noted Dec. 22.

Tex., Ladonia—Waterworks extension and sewerage system, to Sherman Machine and Iron Wks., 18-32 East Main St., Oklahoma City, Okla., $39,319. Noted Feb. 9.

Wyo., Greybull—For 200,000 gal. steel tank, 28,030 ft. 2-8 in. mains, hydrants, valves, fittings, etc., to Johnson & Cotner, Worland, $50,609. Noted Feb. 9.

Sewers

PROPOSED WORK

N. C., Asheville—Will soon issue $100,000 bonds and take bids, installing new sewers and repairing old ones. R. J. Sherrill, comr. pub. wks.

N. C., Fayetteville—Having plans prepared improving sewers, water mains and streets. Will issue $300,000 bonds. E. R. MacKethan, mayor.

N. C., Kernersville—Having plans prepared and soon takes bids sewerage and waterworks systems. $90,000. Carolina Eng. Co., Wilmington, engrs.

N. C., Lumberton—See "Streets and Roads."

N. C., Taylorsville—Having surveys made sewerage and waterworks sytem. $75,000. Carolina Eng. Co., Wilmington, engrs.

N. C., Troy—Will soon issue $125,000 bonds and take bids, installing new sewers and repairing old ones. M. A. Nicholson, clk.

N. C., West Asheville, (Asheville, P. O.)—Plans 8½ mi. sewers. $50,000.

S. C., Walhalla—Takes bids in about 5 weeks, installing sewers and gravity water supply system. $125,000. Ryan Eng. Co., Arcade Bldg., Columbia, engrs. Noted Sept. 29.

Ky., Ashland—City, and Alvord & Buddick, engrs., 8 South Dearborn St., Chicago, take bids about May 1, sewers. $250,000.

Ky., Paducah—Takes bids about April 1, 10 mi. concrete storm sewers. $600,000. Alvord & Burdick, 8 South Dearborn St., Chicago, engrs. Noted Dec. 1.

O., Sandusky—Erie Co. making preliminary plans vitr. and concrete sewerage system and disposal plant. $80,000. Morris-Knowles, Inc., 1004 Hanna Bldg., Cleveland, engrs.

Wis., Shawano—Making plans 15,000 ft. 6-12 in. vitr, storm and sanitary sewers in La Fayette, Division and Picnic Sts. $25,000. L. P. Pelishek, Clintonville, engr.

Neb., College View—C. E. Barron, city clk., opens bids latter part of March, 4 mi. sewers, 8 in. laterals, 10 in. outlet. $90,000 A. H. Edgren, County Court House, Lincoln, engr.

Neb., Grand Island—Soon takes bids reconstructing sewerage system and disposal plant. $300,000. E. W. Bennison, city engr. Noted Dec. 1.

Neb., Lincoln—Plans disposal plant, Dist. 1. $330,000. Grant, Fulton & Letton, 505 Bankers Life Bldg., Lincoln, and Alvord, Burdick & Howson, 8 South Dearborn St., Chicago, engrs.

S. D., DeSmet—See "Waterworks."

Tex., Robstown—Voted $40,000 bonds improving sewers. Addres Mayor. Noted Jan. 12.

Wash., Tacoma—Making plans and takes bids within 60 days sanitary and storm trunk sewer in Center St., $1,000,000; trunk sewer to drain Bottle Swamp, $250,000; 48-96 in. pipe. J. C. Manley, Tacoma, engr.

Cal., San Francisco—Had plans prepared sewers Collingwood St. between 20th and 22nd Sts., and 21st and 22nd Sts. between Castro and Diamond Sts., 23,500 cu.yd. cut, 4,274 cu.yd. fill, 2,285 lin. ft. 6-12 in. vitr. pipe, forty-eight 8 in. and forty-four 12 in. wye branches, etc. $67,000. M. M. O'Shaughnessy, city engr.

Que., Montreal—Executive Com. takes bids in March, sewers in Birman, Stuart, Lanoraie, Allan, Anvers and Ogilivie Sts. $196,600. L. O. Pion, purch. agt.

BIDS DESIRED

N. Y., Brooklyn—March 8, by E. Riegelmann, boro pres., remodeling sewer outfalls, Sect. 2-B, of Biological plant, 26th Ward Disposal Works, between Wortman Ave. and Jamaica Bay and between Miller and Schenck Aves.; dredging outfall drainage canal, Sect. 2-A of Biological Plant, 26th Ward Disposal Works, between Fairfield Ave. and Jamaica Bay and between Miller and Schenck Aves.

N. Y., Long Island City—March 6, by M. E. Connolly, pres. Queens Boro, 68 Hunterspoint Ave., sewers in Grove St., Junction and Liberty Aves., etc.; two receiving basins in 14th St. and Ely Ave.

N. Y., New York—March 6, by H. Bruckner, pres. Bronx Boro, Municipal Bldg., storm sewers in East 233rd St. from Hutchinson to Harper Aves., etc., $75,000; sewer in Oak Point, $15,000.

N. J., Plainfield—March 20, by Common Council, City Hall, 5,600 lin.ft. 18-48 in. storm sewers. A. W. Vars, city engr.; adv. this issue.

Pa., Phila.—March 7, by F. H. Caven, dir. pub. wks., following brick sewers, 2,677 ft. 3 ft. 2 in. in 52nd St. from Diamond St. to Susquehanna Ave., Diamond St. from 52nd to 54th Sts., $26,000; 2,587 ft. 2 ft. 3 in. x 1 ft. 6 in. Buist Ave. from 70th to 71st Sts. Columbia Ave. from Wynnewood Rd. to 64th St., Comly Ave. from Cottage to Walker Sts., Delphine St. from 3rd to 4th Sts., $25,000; 4,419 ft. 3 ft. 6 in. x 2 ft. 4 in., 66th Ave. from Ogontz Ave. to 18th St., 66th Ave. from Ogontz Ave. to Opal St., 20th St. from 65th to 67th Ave., Ogontz Ave., from 66th to 67th Ave., $38,000; 2,724 ft. 2 ft. 3 in. x 1 ft. 6 in. 67th Ave. from 20th St. to Ogontz Ave., Turner St. from 54th St. to Columbia Ave., $26,000; 2,494 ft. 2 ft. 6 in. x 1 ft. 8 in., 24th St. from Thorps Lane to Champlost Ave., $25,000; 1,685 ft. 4 ft. x 2 ft. 8 in., 21st St. from 65th to 66th Ave., 66th Ave. from Limekiln Pike to 21st St., $25,800; 5 ft. 5 in. Packer St. from Colorado Ave. to 17th St., 17th St. from Packer to Bigler Sts., $75,000; 2,334 ft. 2 ft. 3 in. x 1 ft. 6 in., Mulberry St. from Harrison to Wakeling St., Sparks St. from York Rd. to Broad St., 70th St. from Upland St. to Kingsessing Ave., $25,500; 3,745 ft. 2 ft. 6 in. x 1 ft. 8 in. Howell St. from Cottage to Walker St., Lebanon Ave. from 66th to 68th Ave., Montgomery Ave. from Wynnewood Rd. to 64th Ave. $35,000. C. Frommer, City Hall, engr.

Pa., Phila.—March 7, by F. H. Caven, dir. pub. wks., furnishing and installing 6 hydraulic elevators for Mingo sewage plant. $25,000. C. Frommer, City Hall, engr.

N. C., Enfield—See "Industrial Works."

O., Akron—March 8, by E. A. Zeisloft, dir. Pub. Serv. Wolf Ledge Trunk Sewer from Iron to Sherman St.; 1,950 ft. 96-114 ft. vitr. brick and 3,000 ft. 8-24 in. tile. J. E. Root, 300 Delaware Bldg., engr.

O., Cleveland—March 9, sewers in Miles Ave. S. E. from Judson Dr. S. E. to easterly city limits, Amesbury Ave. N. E. from East 93rd St. to Sharp allotment, Lardet Ave. S. E. from East 111th to East 116th St., East 51st St. from Wayne Ave. S. E. to Julia Ave. S. E., East 111th St. from Melba Ave. S. E. to point 190 ft. north of Forest Ave. S. E. $50,000. R. Hoffman, City Hall, engr.

O., Lima—April 1, at office of C. A. Bingham, city mgr., sewage treatment works, intercepting and outfall sewer and sewage pumping stations, Contrs. A, B, C and D. B. F. Darling, superv. engr.; adv. this issue.

Mich., Ferndale—March 6, by K. Jerome, engr., 1331 Majestic Bldg., Detroit, laying 11,500 ft. 24 and 30 in. crock sewers, in Rockwell Ave. $25,000. Village will purchase and furnish crock.

Mich., Romeo—March 16, by B. N. Seaman, village clk., 14,710 ft. 8-15 in. sanitary sewers, 5,825 ft. 6-8 in. house connections. 14,441 ft. 10-60 in. storm sewers, 93 inlets, headwall, etc. Ruhling & Holsworth, 16,549 Woodward Ave., Detroit, engrs.

Ill., St. Charles—March 7, 12 in. vitr. tile sewers and 8 in. rein.-con. monolithic pavement, 24 ft. wide, on Prairie St., et al. $32,000. Wells Eng. Co., First Natl. Bank Bldg., Aurora, engr.

Col., Englewood—March 13, trunk line sewers in Dist. 1, serving 8,500 lots, 8-18 in. vitr. clay pipe, $120,000; lateral sewers Dist. 1, covering above territory, vitr. clay pipe. $120,000. G. A. Ivett, Englewood, engr.

Sewers (Continued)

CONTRACTS AWARDED

N. Y., Brooklyn—E. Reigelmann, boro pres., Boro Hall, sewers in 83rd St., Empire Blvd. and 20th Ave., to Tomasetti & Co., Inc., 1133 60th St., 83.83% engineers estimate ($9,000), 82.82% ($4,900) and 88½% (450), respectively; 82nd St. to R. Nazzarro, 1550 62nd St., 84% ($4,700); Hinsdale St., to Murphy Bros., 262 Bay 43rd St., 63% ($1,600); Osborn St., to F. Merendino, 540 17th St., 90¼% ($1,100); Bay 28th St., to J. Jennings, Belle Harbor, 90% ($2,400). Noted Feb. 23.

N. Y., Rome—C. Feverent, Rome State School for Mental Defectives, rehabilitation of disposal plant, at State School, to S. Scullen, 290 Saratoga St., Cohoes, $22,657. Noted Feb. 23.

N. J., Trenton—Bd. Freeholders Mercer Co., Court House, storm drain in South Broad St., to Celentono & Michaloski, 509 Bridge St., 83⅓% engineers estimate ($20,905). Noted Feb. 2.

Mich., Detroit—For (1) Woodward Ave. Arm of Seven Mile Rd. Sewer (2) Dequindre Ave. Arm of Seven Mile Rd. Sewer, (3) Coon Ave. Arm West of Wyoming Ave. Sewer, (4) Joann Rd. Arm of Gratiot Ave. Sewer, (5) Buena Vista Arm of Wyoming Ave. Sewer, (6) Fenelon Ave. Arm of Lynch Rd. Sewer, (7) Livernois Ave. Arm of Seven Mile Rd. Sewer, to C. R. Lennane & Co., 2631 Woodward Ave., (1) $31,614; W. Blanck & Co., 827 Ford Bldg., (2) $104,431, (3) $26,973, (4) $48,876, (6) $30,682; G. R. Cooke, 1260 Penobscot Bldg., (5) $23,086; C. M. Davis Co., 400 Penobscot Bldg., (7) $72,782. Noted Feb. 16.

Mich., Northville—For 25,800 ft. of 8 to 18 in. main sanitary sewer, Sect. 1 and 24,300 ft. of 8 to 12 in., Sect. 2, to Shullo Constr. Co., Akron, O., $34,415 and $26,005 respectively; sewage treatment works, Imhoff tank, etc. to Denton & Johnson, Saginaw, $34,750. Noted Jan. 12.

Mich., Springwells—For 6,565 ft. 42-72 in. concrete and brick trunk sanitary sewer, Sect. 1, to C. M. Davis, 400 Penobscot Bldg., Detroit, $107,948; 6,725 ft. 60-66 in. trunk sanitary sewer, Sect. 2, to J. Porath, 34 McGraw Bldg., Detroit, $106,056; 4,004 ft. 6-8 ft. Schaefer Rd. Sewer, Sect. 5, to R. D. Mercier, Grand River Ave., Detroit, $97,929. Noted Jan. 12.

Ill., Winnetka — Sanitary sewers and water system, to Gaedke & Donovan, Waukegan. $75,000.

Wis., Brillion — Sanitary and storm sewers to W. F. Rebbens, Mayville, $21,645. Does not include pumping station. Noted Jan. 19.

Wis., Milwaukee—Sewerage Comn., 875,000 common brick for sedimentation and aeration tanks on Jones Island, to Burnham Bros. Co., 68 Wisconsin St., $12 per M.

Ia., Riverside—Sewerage system, to Independent Constr. Co., 304 Lane Bldg., Davenport, $27,000.

Tex., Ladonia—See "Waterworks."

Wash., Aberdeen—N. Thrift, city clk., opened bids Feb. 15, 70,960 ft. 8-24 in. rein.-con. or clay trunk sewer and laterals, etc., in Division St., et al, to F. A. Keasal, 1004 North Cushman St., Tacoma, $150,000. Noted Feb. 9.

Waste Disposal

PROPOSED WORK

W. Va., Charleston—See "Streets and Roads."

Bridges

PROPOSED WORK

Pa., Pittsburgh—Allegheny Co. takes bids about August, single steel arch bridge, 800 ft. long, 60 ft. wide, over Jacks Run, between here and Bellvue. $400,000. J. G. Chalfant, City County Bldg., co. engr.

Fla., West Palm Beach—Palm Beach Co. plans concrete bridge over Boca Ratone Inlet, $15,000; steel bridge over East Coast Canal, $12,000. R. F. Goodman, West Palm Beach, engr.

Ill., Sterling—Revising plans for 1st Ave. Bridge over Rock River, 150 ft. steel truss span, concrete abutments, 36 ft. roadway, $200,000. E. O. Hills, Court House, Morrison, engr. Noted Sept. 29.

S. D., Yankton—Meridian Highway Bridge Co. rejected bids opened Nov. 29, for steel superstructure, 5,280 ft., over Missouri River. Will do certain abutment and shore work on Nebraska end of bridge in near future. Harrington, Howard & Ash, Orear-Leslie Bldg., Kansas City, Mo., engrs. Noted Dec. 15.

Missouri—State Hy. Dept., Jefferson City, plans rein.-con. slab spans and steel truss span, on road from Clinton to Osceola, Federal Aid Project 87, Henry Co. $27,765. A. Graham, state highway engr.

Tex., San Angelo—G. Gilchrist, engr. of Tom Green Co., takes bids in April, 500 ft. rein.-con. bridge, 48 ft., over North Concho River on Beauregard Ave., for city and Tom Green Co. $75,000.

Que., Vaudreuil—Iles Perrot Bridge Comn. soon receives bids 2 bridges, each 1,000 ft. long, 100 ft. wide, to connect city and St. Anne de Bellvue on one side and city and Isle Perrot on other side. $1,500,000. V. Denis, Shaugnessy Bldg., McGill St., Montreal, ch. engr.

California—See "Streets and Roads."

Ont., Port Stanley—Elgin Co. and Dominion Government, Ottawa, having plans prepared for swing bridge here. $90,000. A. Craig, Royal Bank Bldg., London, engr.

BIDS DESIRED

N. J., Trenton—March 14, by Bd. Freeholders Mercer Co., Court House, Bridge 6-140.13, plate girder, over Assunpink Creek, East Clinton Ave. H. F. Harris, Court House, co. engr.; adv. this issue.

W. Va., Wayne—March 6, by Wayne Co., superstructure for 170 ft. steel span bridge across 12 Pole Creek near Iverson. H. O. Wiles, Wayne, engr.

North Carolina—March 15, by State Hy. Comn. Raleigh, bridges and culverts on State Project 951, Jackson Co., 1,419 cu.yd. concrete, 121,950 lb. reinforcing, etc., $38,840; on State Project 962, Macon Co., 1,217 cu.yd. concrete, 122,460 lb. reinforcing, etc., $34,000. C. M. Upham, state highway engr.

La., Rayville—March 14, by Police Jury, Richland Parish, steel bascule lift bridge, timber trestle approaches, over Bouef River, near Alto. $25,000. J. W. Billingsley, Interstate Bank Bldg., New Orleans, consult. engr.

O., Dayton—March 10, by C. H. Paul, ch. engr. Miami Conservancy Dist., for moving Prairie Ford Bridge to new location ¾ mi. north to new abutments and piers. $10,000. H. S. R. McCurdy, Englewood, engr.

Minnesota — March 9, by State Hy. Dept., St. Paul, State Project 20-26, Olmstead Co., Bridge 3715, two 30 ft. rein.-con. girders, Bridge 2716, two 20 ft. rein.-con. slab spans; State Project 10-40, Wright Co., Bridge 3622, three 55 ft. rein.-con. girders; State Project 1-27, Rice Co., Bridge 3578, one 35 ft. rein.-con. girder, Bridge 3579, two 50 ft. rein.-con. girders; State Project 2-26, Carlton Co., Bridge 3717, one 20 ft. rein.-con. slab span. J. T. Ellison, bridge engr.

Kan., Eldorado — March 9, by Clerk Butler Co., 30 ft. T girder, 30 ft. I beam, two 40 ft. T girders, 25 ft. T girder and 18 ft. slab span. J. H. Austin, Eldorado, engr.

N. D., Grand Forks—March 7, by Grand Forks Co., rein.-con. and steel truss spans. $40,000. J. Ingram & Co., Grand Forks, engrs.

Wyoming—March 14, by State Hy. Dept., Cheyenne, two 32 ft. I beam bridges, rein.-con. abutments, and one concrete bridge, having two 50 ft. spans, over Powder River, on Federal Aid Project 110, 40 mi. west of Casper, Natrona Co. $36,000. Z. E. Sevison, state highway engr.

Missouri—March 7, by State Hy. Dept. at div. office Bloomfield, one 20 ft., one 30 ft., two 40 ft. and one 50 ft. I-beam spans and one 120 ft. steel truss, all 18 ft. roadways, on concrete abutments, on road from Cairo to Poplar Bluff, Federal Aid Project 118, Sect. A, Stoddart Co. $40,065. A. Graham, Jefferson City, State Highway engr. Noted Feb. 23.

Col., Denver—March 7 (change of date), 112 ft. rein.-con. bridge, York St. and Cherry Creek. $45,000. J. B. Hunter, City Hall, engr. Noted Feb. 9.

Cal., Guerneville—March 15, by Supervs. Sonoma Co., (Santa Rosa), steel bridge over Russian River, here, 1,545 cu.yd. concrete, 78 ton reinforcing and 310 ton structural steel, etc. $115,500. B. P. Smith, co. surv. Noted Dec. 15.

RESERVOIR—DETROIT, MICH.

Bids were received by Bd. Water Comrs., Detroit, Feb. 14, for constructing filtered water reservoir (lowest 5 and highest bid), from (A) W. E. Wood Co., 1805 Ford Bldg (awarded contract); (B) H. G. Christman Co., 315 Stevens Bldg.; (C) Everett Winters Co., 725 Detroit Savings Bank Bldg.; (D) Bryant & Detwiler Co., 2336 Dime Bank Bldg.; (E) John Bollin Co., 1259 Book Bldg.; (F) Cleveland Eng. & Constr. Co., 778 The Arcade, Cleveland. The unit bids were as follows:

	A	B	C	D	E	F
General contract (lump sum)	$391,000 00	$405,500 00	$427,503 00	$395,217 00	$446,000 00	$667,500 00
45,000 yd. excavation	1 20	1 37	1 25	1 88	1 24	4 20
622,000 lin.ft. piles	0 39	0 38	0 365	0 375	0 355	0 44
Time (days)	250	250	200	10 months	275	300
Extended totals	$687,580	$703,510	$710,783	$713,067	$722,610	$1,130,180

BIDS RECEIVED

Missouri—See "Streets and Roads."

CONTRACT AWARDED

Florida — State Rd. Dept., Tallahassee, constructing Seminole Bridge, 1,200 ft. long, and Safety Harbor Bridge, 1,440 ft. long, to A. Bentley & Sons Co., Atlantic Natl. Bank Bldg., Jacksonville, $111,232 and $87,034 respectively. Noted Feb. 2.

North Carolina—State Hy. Dept., Raleigh, rein.-con. arch bridge over Rocky River, State Project 606, Anson and Stanly Counties, to Concrete Steel Bridge Co., Clarksburg, W. Va., $49,781; rein.-con bridge over Eno River, east of Hillsboro, State Project 453, Orange Co. to G. W. Kane, Roxboro, $30,642; structural steel and rein.-con. bridge, State Project 183B, Pitt Co., to B. J. Boyles, Wilson, $29,400. Noted Jan. 19.

Wis., Holmen—La Crosse Co., Holmen Bridge, to E. Whitbeck, Holmen, $14,386. Noted Feb. 16.

Wis., Tomahawk—Lincoln Co. and city, six 75 ft. plate girder spans, 20 ft., on 4th St., to Stein Constr. Co., 204 Grand Ave., Milwaukee, $48,700. Noted Feb. 23.

Mo., Moreau (Jefferson City P. O.)—Missouri Pacific R.R. Co., Ry. Exch. Bldg., St. Louis, will build 250 ft. trestle, T girders, on St. Louis Rd., here, by day labor. $25,000. E. A. Hadley, engr., Ry. Exch. Bldg., St. Louis, will superintend. Noted Feb. 23.

Dams

PROPOSED WORK

O., New Concord—Plans storage dam. Cost between $20,000 and $25,000. H. C. Pugh, Zanesville, solicitor.

O., Wellsville—See "Waterworks."

Cal., Chico—See "Excavation and Dredging."

Cal., Grass Valley—See "Excavation and Dredging."

Cal., Suisun—See "Excavation and Dredging."

BIDS DESIRED

Neb., Imperial—March 21, by Bd. Dirs. Frenchman Valley Irrigations Dist., Culbertson, building Harvey dam, flume, pipe lines, setting valves and gate, 130,000 cu. yd. excav., 145 cu.yd. reinforced, 220 cu. yd. mass and 200 cu.yd. plain concrete, etc. $125,000. Hershey & Merick, Brownell Bldg., Lincoln, engrs.

Railways

PROPOSED WORK

North Carolina—Carolina Power & Light Co., Raleigh, having surveys made 6 mi. railroad from point on Southern R.R., probably between Norwood and Albermale, to point on Yadkin River near Swift Island Ferry. $100,000. H. B. Cartwright, Raleigh, engr.

Oklahoma—Kansas, Oklahoma & Gulf R.R., Muskogee, plans 62 mi. line from Caney, Kan. to iVnita, and 10 mi. line from Vinita northwest to coal mines. G. N. Toops, ch. engr.

California—Bd. Supervs. of San Francisco, having plans prepared extending Municipal Ry. system from Grafton and Brighton Aves. into Ocean View Dist. $110,000. M. M. O'Shaughnessy, city engr.

CONTRACTS AWARDED

Wisconsin—Wisconsin Pub. Serv. Co., 559 Marshall St., Milwaukee, will extend tracks on Shawano Ave. and lay tracks across Walnut Street Bridge, in Green Bay, by day labor. $140,000. J. Pulliam, c/o owner, engr.

Ontario—Grand Trunk Wabash Ry., St. Thomas, will relay line between Glencoe and St. Thomas, with 100 lb. steel rails, by day labor. $200,000. J. C. Crombie, St. Thomas, engr.

Excavation and Dredging

PROPOSED WORK

Cal., Chico—J. B. Thompson, engr., 3rd and Bway., preparing plans irrigating 100,000 acres in Butte Co., incl. rock fill dam, 250 ft. high, 2,200 ft. long, and 54 mi. concrete lined canals.

Cal., Garden Grove—Garden Grove D. D., Orange Co., had plans prepared tile drainage system, 6-20 in. tile. Plan $100,000 bond issue preparatory to calling for bids. H. A. Lake, chn. Bd. Dirs.

Cal., Grass Valley—Nevada Irrigation Dist. having plans prepared for 6 mi. canal; concrete dam, 46 ft. high, 190 ft. long on bottom and 350 ft. long on crest; distributing system including 212,000 acres. Cost between $4,000,000 and $4,500,000. F. H. Tibbetts, Alaska Commercial Bldg., San Francisco, engr.

Cal., Suisun—Suisun Irrigation Dist. having plans prepared 25 mi. canal; 4 concrete diversion dams, average 20 ft. high, 60-80 ft. long; earth storage dam, 810 ft. long on crest, 500 ft. long on bottom, 90 ft. high, 20 ft. wide at top, Napa and Solano Counties. $1,000,000. G. L. Dillman, 14 Montgomery St. and E. C. Cope, 58 Sutter St., San Francisco, engrs.

Ont., Tara—Arran Twp. having surveys made draining Martin Swamp. $35,000. A. Hackner, Owen Sound, engr.

Ont., Wiarton—Keppel Twp. plans to drain Long Swamp and reclaim 1,800 acres. $28,000. G. Atkey, clk.

BIDS DESIRED

N. Y., Brooklyn—See "Sewers."

Minn., Crookston—March 10 by Polk Co., repairing Ditch 38, 88,875 cu.yd. excav., grading 10¼ rods, constructing 7 rein.-con. bridges, removing and replacing culverts. $25,557. E. L. Boyer, Crookston, engr. Noted Jan. 13.

Minn., Madison—March 10 by Lac Qui Parle Co., Ditch 4, 5 mi. open ditch, 326,430 cu.yd. excav., and 163,306 ft. 5-24 in. tile. $41,619. S. B. Gardner, Benson, engr. Noted Jan. 12.

Minn., Olivia—March 8 by Renville Co., Judicial Ditch 12, 462,464 cu.yd. excav., 47 mi. 5-28 in. tile. $189,999. A. O. Schmidt, aud.

Minn., Redwood Falls—March 24 by Redwood Co., Ditch 54: 256,820 lin.ft. 6-30 in. tile. $30,000. B. J. Reynolds, Redwood Falls, engr.

CONTRACTS AWARDED

Me., Portland—State Dirs. of Port, 67 Commercial St., removal of old wharf and piling, 150,000 cu.yd. floating dredge work, to Aberthaw Constr. Co., 27 School St., Boston, $6°,425.

S. D., Watonsocket—Sanborn Co., 33,400 ft. 6-27 in. tile drain, 22,485 ft. 8-24 in. sewer pipe, etc., for Co. Ditch 29, to J. W. Welt, Bancroft, Neb., $70,289.

Streets and Roads

PROPOSED WORK

Conn., Milford—Plans paving East Bway, Fort Trumbull Beach, $86,000; North St., $16,700; Broad St., 10,000; Hillside Ave., $14,500; Gulf St., $15,000; Daniel St., $3,800; West River St., $10,000. Noted Nov. 24.

N. Y., Ellicottville—Soon takes bids completing roads now under construction and new 4 mi. road between here and Ashford. $60,000.

N. Y., Geneva—Bd. Pub. Wks. soon opens bids paving Pultney, Grove and High Sts., Nursery and Lafayette Aves., asphalt $145,256, concrete $149,083, brick and concrete $181,019.

Pa., Erie—A. Eichorn, street dir., opens bids about March 16, paving State St. from 26th St. to Mill Rd. $95,000. F. G. Lynch, city engr.

Md., Baltimore—Plans paving Washington Rd. from old to new city line, Guilford Ave. from 32nd St. to University Parkway, Lombard St. from East to 3rd Aves., Highland Ave. from Philadelphia Rd. to Monument St., Hillsdale Rd. from Forest to Liberty Heights Aves., East Driveway of Gynn Oak Ave. to Ridgewood Ave. $1,500,000. H. G. Perring, city engr.

W. Va., Charleston—Voted—$490,000 bonds widening and extending Washington and Lee Sts., also building incinerator and free garbage disposal system. E. Bruce, city engr. Noted Jan. 26.

North Carolina—State Hy. Dept., Raleigh, rejected bids opened Feb. 7, grading and building bridges on 2.4 mi. Federal Aid Project 174, Pasquotank and Camden Counties. $40,000. Work will be readvertised. Noted Feb. 16.

N. C., Black Mountain—Mt. Mitchell Scenic Highway Co. plans scenic highway from point near here to top of Mt. Mitchell. $100,000. S. Cohen, Black Mountain, engr.

N. C., Greensboro—Takes bids about March 28, paving Elm St. and part of Sycamore St., concrete or some asphaltic type. $50,000. P. C. Painter, city mgr.

N. C., Lumberton—Having surveys made paving various streets and extending water mains and sewers. $50,000.

N. C., Marion—Soon takes bids street improvements. $35,000. L. A. Neal, clk.

N. C., New Bern—Plans paving 30 blocks, concrete or some type of asphalt. $60,000. A. A. Kafer, New Bern, alderman.

N. C., Rockingham—Soon takes bids paving various streets. $50,000.

N. C., Selma—Soon takes bids paving various streets. $40,000.

Fla., Chipley—Having plans prepared 3 mi. roads. $50,000. O. H. Lang, c/o City Clerk, engr.

Fla., Crawfordsville—Wakulla Co. to vote on $200,000 bonds March 28, constructing 20 mi. roads.

Fla., Kissimmee—Lake Wilson Rd. & Bridge Dist., Osceola Co., plans 8 mi. road, probably asphalt. $80,000. J. Johnston, co. engr.

Fla., St. Petersburg—Had plans prepared widening portions 12 streets, 15,000 sq.yd. brick paving and relaying 18,000 sq. yd., 5,000 cu.yd. excav., $75,000; 20,000 sq. yd. vitr. brick, asphalt filler, on 15 streets, $60,000; laying 35,000 sq.yd. vitr. brick, sand filler on portions 20 streets, $100,000; 60,000 lin.ft. granite curbing on 50 streets, $40,000; laying 10,000 sq.yd. asphalt block on various streets, $25,000. E. C. Garvin, dir. pub. wks.

Fla., Titusville—Brevard Co. to vote on $30,000 bonds paving 4½ mi. road from Mims to county line, probably rock base.

Fla., West Palm Beach—Palm Beach Co. to vote on $30,000 bonds to pave 9 mi. West Rd. out of Boynton; $45,000 for 12 mi. Ocean Blvd. from T46S, R43E to county line; $45,000 for 15 mi. roads out of Delray and $43,000 for 15 mi. Lake Osborn Rd., et. al., 9 mi. rock, oil surface. R. F. Goodman, West Palm Beach, engr.

Alabama—State Hy. Dept., Montgomery, having plans prepared grading and sand-clay surfacing 24.63 mi. Ariton-Clayton Rd. Barbour Co. $110,000. W. S. Keller, state highway engr.

La., New Orleans—Will open bids about March 15, paving 32 streets. A. Klorer, city engr.

O., Akron—Comrs. Summit Co. open bids about April, grading and macadamizing 4 mi. Kent-Darrowville Rd. $40,000. J. Weaver, Court House, engr.

O., Akron—Director Pub. Serv. opens bids about April, paving 5,000 ft. Newton St. et al., 15,000 sq.yd. vitr. brick, 10,000 lin.ft. curbing, 40,000 sq.ft. sidewalks, 11,000 cu. yd. excav., 15,000 sq.yd. concrete base. $90,000. E. A. Kemmler, 300 Delaware Bldg., engr.

O., Bexley (Columbus, P. O.)—Making plans grading, curbing, laying water mains and paving 3,300 ft. Cassidy Ave., 30 ft., $80,000; 500 ft. Dale Ave., 24 ft., $9,000; 500 ft. Plymouth Ave., 24 ft. $9,000, asphalt, brick or concrete. Jennings-Lawrence Co., Hartman Bldg., Columbus, engrs.

O., Columbus—Plans grading, curbing, laying water mains and paving Olpp Ave., 700 ft. long, 24 ft., asphalt, $8,998; brick, $10,067; alley west of Linwood Ave., 422 ft. long, 20 ft., concrete, $2,694; brick, $3,382; Apple St., 326 ft. long, 24 ft., bituminous macadam, $3,144; brick, $4,367; Midland Ave., 3,020 ft. long, 26 ft., bituminous macadam, $2,587; Champion Ave., 2,930 ft. long, 28 ft., asphalt, $29,200; Bryden Rd., 780 ft. long, 34 ft., asphalt, $4,440; Pearl St., 1,100 ft. long, 20 ft., concrete, $6,045; brick, $7,595; alley west of Lexington Ave., 405 ft. long, 16 ft., concrete, $2,505; brick, $3,120. R. H. Simpson, city engr.

O., Dayton—Montgomery Co. plans paving portions Salem and Germantown Pikes, concrete, brick or asphalt. $85,000. P. S. Bookwalter, co. surv.

O., Dayton—Plans paving Wilmington Ave. from Wayne to Irving Aves., 9,000 sy.yd. asphalt, brick or concrete. $45,500. I. E. Houk, city engr.

O., Dayton—Plans curbing, guttering and paving 1,800 ft. Hoddap Ave. from Linden to Wyoming Sts., 5,000 sq.yd. brick. $31,775. I. E. Houk, city engr.

O., Dayton—Plans paving Cambridge Ave. from Salem St. to Bway., sheet asphalt, $11,300; Kenwood St. from Salem to Richmond Sts., rein.-con., $25,600; Orth St. from Riverview to Negley Sts., sheet asphalt, $5,700. Work involves 2,500 lin.ft. cement curb and gutter, 5,000 sq.yd. rein.-con. and 3,500 sq.yd. asphalt. I. E. Houk, city engr.

O., Marietta—Plans curbing and paving Spring, Woodland, Ingleside, Wells and Kenwood Sts., brick or concrete on sand and gravel. $40,000. G. L. Haenn, city engr.

O., Xenia—Plans paving East Church Maple, Chestnut, High, West and Union Sts., 2 mi. long, 30-50 ft., brick and sheet asphalt. $137,000. W. F. Foster, 702 Commercial Bldg., Dayton, engr.

Mich., Detroit—Had plans prepared paving 11 alleys, 18 and 20 ft. wide, one course concrete. $28,000. C. W. Hubbell, city engr.

Mich., Detroit—Plans grading, widening paving, and curbing Madison Ave. from Witherel to Randolph Sts., 2,850 lin. ft. Medina curb, 8,000 sq.yd. 3½ asphalt on concrete. $49,563. C. W. Hubbell, city engr.

Ill., Mattoon—Plans paving various streets, vitr. brick on concrete. $60,000. F. E. Bishop, c/o City Council, engr.

Wis., Ft. Atkinson—Plans concrete paving, curbing and guttering 1 mi. North 3rd North High and Ralph Streets. $25,000 to $30,000. H. H. Smith, clk. Engineer not selected.

Wis., La Crosse—Plans prepared paving 2 mi. Charles, Gillett and Gohres Sts., 22 ft. asphalt, concrete curbs and gutters $55,000. G. P. Bradish, City Hall, engr.

Wis., Rice Lake—Plans paving 1.1 mi. West Marshall, Eau Claire, Main, Humbird and West Messenger Sts., one course rein.-con., concrete curbs and gutters. $30,000. G. Jensen, clk.

Minn., Duluth—B. Farrell, city comr., rejected bids opened Feb. 10, paving Superior St. from 8th Ave. West to 3rd. Ave. East. $185,000. Eng. Dept. preparing new specifications and will take bids on brick, concrete and bitulithic. Noted Feb. 2.

Kan., Ottawa—Comrs. Franklin Co. rejected bids received Feb. 17 grading and bridging 4.65 mi. Santa Fe Trail, Federal Aid Project 105, 28 ft. A. V. Helms, Ottawa, engr. Noted Jan. 26.

South Dakota—State Hy. Dept., Pierre, plans to expend $1,500,000 for road work during 1922. F. D. Hudgins, state highway engr.

N. D., Fargo—Cass Co. having plans made gravel surfacing 18 mi. Natl. Parks Highway, from Mapleton to point 2 mi. east of Wheatland. $35,000. W. R. Tucker, aud.

Missouri—State Hy. Dept., Jefferson ity, plans 7.631 mi. road from Jamesport to Trenton, Federal Aid Project 165, Daviess Co., 36,788 cu.yd. earth excav., 4,962 cu.yd. borrow and 546.7 cu.yd. concrete masonry, etc. $43,280. A. Graham, state highway engr.

Tex., Cameron—Milam Co. having plans prepared grading and gravel surfacing 19 mi. Cameron-Caldwell Rd. from here to Milam Co., 14 ft. $115,000. A. F. Mitchell, co. engr.

Tex., Georgetown—Williamson Co. having plans prepared grading and gravel surfacing 11.4 mi. Taylor-Thorndale Rd. from Taylor to Milam Co. line, 18 ft., $100,000, takes bids in spring, surfacing 9 mi. State Highway 2. 76,727 sq.yd. bituminous macadam. $52,000. R. A. Nichols, co. engr.

Tex., Gonzales—Gonzales Co. having plans prepared grading and gravel surfacing 16.2 mi. State Highway 29 from here to Dewitt Co. line. $95,000. C. F. Tom, co. engr.

Tex., McKinney—Collin Co. having plans prepared grading and surfacing 3.7 mi. State Highway 5 in. Copeville Rd. Dist., 38,950 cu.yd. borrow, 222 cu.yd. concrete, 1,490 lin.ft. timber pile trestle, 16,120 lb. reinforcing, 4,897 cu.yd. shipped gravel, 6,871 cu.yd. local rock base, $56,000; 4.8 mi. Lavan Rd. Dist. State Highway 5-A, 70,000 cu.yd. borrow, 16,105 cu.yd. roadway excav., 188 cu.yd. concrete, 7,822 lin. ft. creosoted timber piling, $85,318; 12.4 mi. State Highway 5-A Blue Ridge Rd. Dist., 86,014 cu.yd. borrow, 237 cu.yd. concrete, 48,044 cu.yd roadway, 17,080 lb. reinforcing, 26,390 cu.yd. gravel surfacing, 12,276 cu.yd. rock base, $176,775. F. W. Cawthon, co. engr.

Tex., Robstown—Having estimates made concrete paving 2 blocks Main St. and gravel surfacing 12 mi. various streets. $30,000 bonds voted, and approved by Attorney Generals Dept., Austin. E. E. Sands, Mason Bldg., Houston, engr. Noted Jan. 12.

Tex., San Antonio—Bexar Co. having plans prepared grading, gravel surfacing and topping 3.4 mi. Seguin Rd. between Converse and Cibolo Creek, 32,300 sq.yd. 1 in. bituminous macadam, $80,000; 2.23 mi. Pleasanton Rd., section Highway 9, 20,800 sq.yd. bituminous macadam, $50,000. C. E Hoff, co. engr.

Streets and Roads (Continued)

Tex., Tyler—Smith Co., making plans grading and gravel surfacing 17.86 mi. State Highway 37 between Tyler and Wood County, 126,000 cu.yd. earth excav., 1,260 cu.yd. concrete, 936 lin. ft. concrete piling, 45,000 cu.yd. gravel, $184,800; grading, paving and bridging 2.24 mi. Jim Hogg Highway 37, 14,000 cu.yd. earth excav., 1,400 cu.yd. concrete, 104 lin. ft. concrete piling, 23,500 sq.yd. concrete paving, $88,500. D. K. Caldwell, co. engr.

Colorado—State Hy. Comn., Denver, appropriated $1,232,176 for state projects in 52 counties and in Dist. 6. L. D. Blauvelt, State Museum Bldg., engr.

Col., Trinidad—M. Butler, city clk., takes bids about March 25, paving 25,570 sq.yd. Dist. 12, Arizona, Willow and Baca Sts., bitulithic on crushed rock. $116,000. L. D. Stoddard and L. R. Douglas, Trinidad, engrs.

California—State Hy. Comn., Sacramento, plans to grade and gravel surface road east from Willows to Glenn, Glenn Co. $150,000. This allotment based on agreement with Supervs. Glenn Co. to appropriate $50,000 toward construction of bridge over Stony Creek on Orland-Chico Rd. A. B. Fletcher, state highway engr.

Cal., Fresno—Had plans prepared improving Calaveras St. between H and Divisadero Sts., 120,377 sq.ft. grading, 112,751 sq.ft. 1½ in. warrenite on 3½ in. asphalt concrete, 7,282 sq.ft. gutters, 4,513 lin.ft. curb, etc.; Callisch St. between Tulare and Ventura Aves., 134,780 sq.ft. grading, 82,270 sq.ft. 1½ in. warrenite on 3½ in. asphaltic concrete, 9,006 sq.ft. gutter, 3,692 lin.ft. curb, 20,288 sq.ft. sidewalks, etc.; North 1st St. between Belmont and Tulare Aves., 158,064 sq.ft. grading, 114,236 sq.ft. 1½ in. asphalt on 3½ in. asphalt, 5,610 sq.ft. gutter, 3,540 lin.ft. curb 20,393 sq.ft. sidewalks, etc. W. Stranahan, city engr.

Cal., Merced—Making plans paving 25 blocks main streets, 1½ in. warrenite on 3½ in. asphaltic concrete; 10 blocks alley, 1½ in. warrenite on 2½ in. asphaltic base. C. D. Martin, city engr.

Cal., San Diego—Had plans prepared paving Grim and Whitman Sts., 180,000 sq. ft 4½ in. asphaltic concrete; Herman Ave., 136,000 sq.ft. 4½ in. asphaltic concrete. F. A. Rhodes, City Hall engr.

Cal., San Diego—Plans paving 14th, 18th, 2nd, 7th, Ash, A, Beech, Cedar, 25th and Crosby Sts., Torrey Rd. and Roosevelt Memorial Dr. F. A. Rhodes, city engr.

Cal., Tracy—Making plans paving various streets, 1½ in. natural bitumen on 5½ in. hydraulic concrete. $90,000. W. D. Harrington, city engr.

Cal., Stockton—Had plans prepared improving East Main, A, B, C, D and E Sts. in Fair Oaks Tract, 1,188 cu.yd. excav., 2,272 lin.ft. curb and gutter, 33,911 sq.ft. sidewalks, 125,637 sq.ft. 2 in. asphalt macadam on 4 in. cement gravel base. W. B. Hogan, city engr.

Ont., Ottawa—Dept. Provincial Highways, Toronto, soon takes bids paving 2½ mi. Prescott Highway from Canadian Pacific Ry. at Experimental Farm to Hogs Back, asphalt finish on 8 in. broken stone. $75,000. G. Hogarth, Parliament Bldgs., Toronto, ch. engr.

Ont., Ottawa—Suburban Rd. Comn., Thistle Bldg., soon takes bids paving 4 mi. Russell Rd., $20,000; 2 mi. Richmond Rd. from Carling Ave., to Base Line Rd. $16,000. A. K. Hay, Thistle Bldg., engr.

Ont., Palmerston—Having plans prepared paving Main St., concrete. $40,000. James, Proctor & Redfern, 17 Toronto St., Toronto, engrs.

Ont., Walkerton—Takes bids about end of March paving Station Rd. and Jackson St., concrete. $40,000. F. W. Lippert, Walkerton, engr.

BIDS DESIRED

N. Y., Babylon—March 27, by Bd. Trustees concrete pavement with incidental street improvements G. H. Walbridge, Bailey Bldg., Main St., engr.; adv. this issue.

N. Y., New York—March 6, by H. Bruckner, pres. Bronx Boro. Municipal Bldg., repaving Willis and Burnside Aves., also paving Westchester Ave., etc., granite block; East 168th St., asphalt; grading Carlisle Pl.; grading and setting curbstones on Davidson, Houghton and Aqueduct Aves., etc.

N. J., Plainfield—March 20, by Common Council, City Hall, improving various streets. A. W. Vars, city engr.; adv. this issue.

N. J., Spring Lake—March 20, by Boro Council, reconstructing 3rd Ave., single course rein.-con. or sheet asphalt on concrete. J. M. Braly, boro. engr.; adv. this issue.

D. C., Wash.—March 15, by Dist. Comrs., 509 Dist. Bldg., 30,000 sq.yd. cement sidewalk; adv. this issue.

Va., Danville—March 7, by R. K. Linville, city engr., paving portions Berryman Ave., Stokes, Craghead, Grove, Chestnut, Loyal and Lynn Sts., some asphaltic concrete on concrete, some durax block. $185,000.

Va., Virginia Beach—March 6, by H. Drinkwater, mayor, at office of City Clerk, grading, curbing and concrete paving 8,100 ft. Atlantic Ave. from 17th St. to Beach Casino, 18 ft. $50,000. J. M. Baldwin, 118 Brooke Ave., Norfolk, engr. Noted Jan. 26.

W. Va., Logan—March 10, by Logan Co. grading and concrete paving 2.1 mi. road, Cora Bridge to Holden Rd., $60,000; 1.5 mi. road from Monitor Junction to Cora Bridge Rd. $26,000. J. N. Smith, Logan, engr.

North Carolina—March 15, by State Hy. Comn., Raleigh, improving 11.85 mi. State Project 951, Jackson Co., 19 acres clearing, 117,600 cu.yd. common and 52,700 cu.yd. rock excav., 4,490 ft. 18-30 in. concrete or corrugated metal pipe, 113,630 sq.yd. waterbound macadam, 3,250 cu.yd. rubble masonry, etc., $233,600; 13.58 mi. State Project 962, Macon Co., 100,400 cu.yd. common and 6,100 cu.yd. rock excav., 2,952 ft. 18-30 in. concrete pipe, 8,920 cu.yd. topsoil, 57,110 sq.yd. waterbound macadam, etc., $120,000; 7.1 mi. State Project 647, Lincoln Co., 50,000 cu.yd. excav., 1,400 ft. 15-24 in. concrete pipe, 74,630 sq.yd. concrete or asphaltic pavement, 745 cu.yd. concrete, 89,760 lb. reinforcing, etc., $239,000; 3.07 mi. State Project 601, Alexander Co., 25,900 cu.yd. common and 7,700 cu.yd. rock excav., 654 ft. 15-24 in. concrete pipe, 7,170 cu.yd. topsoil, 47,130 lb. reinforcing, etc., $31,600; 8 mi. State Project 588, Rockingham Co., 26,500 cu.yd. common and 3,200 cu.yd. rock excav., 1,568 ft. 15-18 in. concrete pipe, 84,720 sq.yd. concrete or asphaltic pavement, 14,600 lb. reinforcing, etc., $244,000; 5.96 mi. State Project 866, Polk Co., 70,600 cu.yd. common and 19,600 cu.yd. rock excav., 1,992 ft. 18-30 in. concrete pipe, 57,330 sq.yd. concrete or asphaltic pavement, 77,400 lb. reinforcing, etc., $211,700; 5.9 mi. State Project 445, Lee Co., 13 acres clearing, 16,100 cu.yd. excav., 400 ft. 18-24 in. concrete pipe, 15,600 cu.yd. gravel surfacing, 5,330 lb. reinforcing, etc., $25,000; 4.49 mi. State Project 592, Warren Co., 27,200 cu.yd. common and 1,000 cu.yd. rock excav., 800 ft. 15-30 in. concrete pipe, 42,130 sq.yd. surface treated macadam, 12,510 lb. reinforcing, etc., $68,000; 2.58 mi. State Project 903, Buncombe Co., 30,300 cu.yd. common and 7,100 cu.yd. rock excav., 1,630 ft. 18-30 in. concrete pipe, 28,550 sq.yd. concrete or asphaltic pavement, 23,230 lb. reinforcing, etc., $100,000. C. M. Upham, state highway engr.

North Carolina—March 15, by State Hy. Comn., Raleigh, improving 4.66 mi. State Project 724, Caldwell Co., 35,300 cu.yd. common and 5,400 cu.yd. rock excav., 1,834 ft. 15-24 in. concrete pipe, 10,960 cu.yd. topsoil, 1,010 cu.yd. concrete, 75,500 lb. reinforcing, etc. $46,000. C. M. Upham, state highway engr.

S. C., Columbia—March 14, by Mayor and City Council, paving various streets, 27,000 sq.yd. roadway pavement, 12,000 cu. yd. excav., 5,000 lin.ft. combination curb and gutter, 7,000 lin.ft. reset curb, 2,000 lin.ft. storm drains, 4,000 sq.yd. sidewalks. W. S. Tomlinson, city engr.

Fla., Brooksville—March 6, by Comrs. Hernado Co., reshaping, rebuilding and treating with oil or asphalt, etc., 50,000 sq.yd. Rd. 5, north of here, $35,000; reshaping, rebuilding and surface treating with some bituminous material 3½ mi. road from here to Aripeka, 12-16 ft., $25,000. H. C. Michler, clk.

Fla., Chipley—March 10, by City Council, 25,000 sq.yd. concrete or asphaltic concrete paving, $60,000; 10,000 lin.ft. concrete curbing and guttering, 40,000 sq.yd. concrete sidewalks, $50,000. O. H. Lang, c/o city clerk, engr. Noted Sept. 15.

Fla., West Palm Beach—March 11, by Comrs. Palm Beach Co., constructing 20 mi. road bed along south bank of Palm Beach Canal; 6 mi. hard surface road from Canal Point to Bacome Point; 3 mi. from Canal Point north along east shore of Lake Okeechobee; 15 mi. road bed from Belle Glade to Lee Co. line; 10 mi. road from Belle Glade on Hillsboro Canal to Pahokee. Former bids rejected. Noted Feb. 9.

Alabama—March 21, by State Hy Comn., Montgomery, grading, bridging and surfacing 18.16 mi. Guntersville-Boax Rd., Marshall Co., 15.18 acres clearing, 76,339 cu.yd. common and 22,677 cu.yd. solid rock excav., 106,459 sta. yd. overhaul, 2,510 lin. ft. 15-24 in. c.i. pipe, 985.71 cu.yd. concrete, 58,185 lb. reinforcing, 42,622 cu.yd. crushed stone base, 191,758 sq.yd. asphalt macadam, bitulithic penetration macadam, on crushed stone base, or one course concrete, plain and reinforced, etc.; 20 mi. road from Brewton to Sardis Church, Escambia Co., 75.08 acres clearing, 144,267 cu.yd. excav., 1,503 lin.ft. 15-24 in. pipe, 974.2 cu.yd. concrete, 64,505 lb. reinforcing, 48,157 cu.yd. gravel surfacing, 37,632 ft. untreated timber, etc.; 12.52 mi. road from Catherine to Arlington, Wilcox Co., 10 acres clearing, 69,476 cu.yd. excav., 277.14 cu.yd. concrete, 11,113 lb. reinforcing, 29,400 cu.yd. gravel surfacing, etc. W. S. Keller, state highway engr.

Alabama—March 22, by State Hy. Dept., Montgomery, grading and surfacing 8.02 mi. road from Morgan Co. line to Cullman, Cullman Co., 15.54 acres clearing, 38,624 cu.yd. common and 3,975 cu.yd. solid rock excav., 214.36 cu.yd. concrete, 10,557 lb. reinforcing, 21,014 cu.yd. crushed stone, and 84,692 sq.yd. bituminous surfacing, bids on following types, 2½ in. bituminous macadam, penetration method, bituminous concrete, or warrenite bitulithic on crushed stone, and one course plain cement concrete and cement concrete pavement reinforced; 10.1 mi. road from Hartselle to Cullman Co. Line, Morgan Co., 4.28 acres clearing, 43,662 cu.yd. common and 8,042 cu.yd. solid rock excav., 666.05 cu.yd. concrete, 69,400 lb. reinforcing and 83,970 lb. structural steel, 26,663 cu.yd. crushed stone, 106,676 sq.yd. bituminous surfacing, 36,666 sq.yd. slag surface to be scarified, 24,487 sta.yd. overhaul, bids on following types, 2½ in. bituminous macadam, penetration method, bituminous concrete, or warrenite bitulithic on crushed stone, one course plain cement concrete pavement and cement concrete pavement reinforced; grading and gravel surfacing 7.256 mi. Judkins Ferry-Wetumpka Rd., Elmore Co., 26.99 acres clearing and grubbing, 133,923 cu.yd. common and 400 cu.yd. rock excav., 22,348 cu.yd gravel, 1,456.05 cu.yd. concrete, 185,182 lb. reinforcing, 37,954 sq.yd. Bermuda grass planting, 1,037 sq.yd. 2 in. bituminous surfacing. W. S. eKller, state highway engr.

Alabama—March 28, by W. S. Keller, state highway engr., Montgomery, grading and surfacing 26.096 mi. road from Elba to Geneva Co. line, Coffee Co., 35 acres clearing, 122,859 cu.yd. excav., 23,503 sta. yd. overhaul, 80,780 cu.yd. sand clay surfacing, 3,060 lin.ft. 15-24 in. D. S. T. C. pipe, 324.73 cu.yd. concrete, 7,255 lb. reinforcing, 33,446 ft. creosoted timber, etc.; 16.7 mi. from La Fayette to Randolph Co. line, Chambers Co., 87,573 cu.yd. common and 1,577 cu.yd. rock excav., 2,790 lin.ft. 18-24 in. D. S. T. C. pipe, 360.33 cuyd. concrete, 10,202 lb. reinforcing, 43,554 cu. yd. topsoiling, etc.; 13.661 mi. from Center Star to bridge over Elk River at Limestone Co. line, Lauderdale Co., 26 acres clearing, 92,948 cu.yd. common and 8,638 cu.yd. solid rock excav., 1,885 lin.ft. 15-24 in. pipe, 2,183.46 cu.yd. concrete, 53,403 lb. reinforcing, 129,651 lb. reinforcing and 115,743 lb. structural steel, 36,066 cu.yd. gravel surfacing, etc.; 14.617 mi. from Athens to Elk River Bridge at Lauderdale Co. line, Limestone Co., 66,484 cu.yd. common and 2,873 cu.yd. rock excav., 1,695 lin.ft. 15-24 in. c.i. pipe, 868.84 cu.yd concrete, 34,632 lb. reinforcing, 34,292 cu.yd. crushed stone base, 11,737 sta.yd. overhaul, 9,576 lb. structural steel, 154,356 sq.yd. 2½ in. bituminous macadam, penetration type, 2 in. bituminous concrete, 2 in. warrenite bitulithic, on crushed stone, or one course cement concrete, plain and reinforced.

Alabama—March 29, by W. S. Keller, state highway engr., Montgomery, grading and surfacing 5.74 mi. road from 1 mi. south of Pincard to Choctawhatchee River Bridge, Dale Co., 29,025 cu.yd. common and 100 cu.yd. rock excav., 12,606 sta.yd. overhaul, 9,500 cu.yd. gravel surfacing, 10,447 cu.yd. sand clay surfacing, 1,787 lin.ft. 15-24 in. D. S. T. C. pipe, 7,803 lb. reinforcing, 18,000 sq.yd. mixing sand clay, etc.; 9.98 mi. road from Geneva to Hartford, Geneva Co., 36 acres clearing, 43,043 cu.yd. excav., 31,225 cu.yd. sand clay surfacing, 7,601 lb. reinforcing, 30,500 sq.yd. Bermuda grass planting, etc.

Ohio—March 6, by Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving roads in following counties:

Defiance Co., Sect. "A" Defiance-Ualding Rd., 5.226 mi., rein.-con., $181,570; Kentucky rock asphalt, $174,951; bituminous macadam, $154,766; bituminous concrete, $174,961. Fulton Co., Sect. "R" Bryan-Wauseon Rd., 3.359 mi., rein.-con., $119,092.

Geauga Co., Sect. "W-2" Chagrin Falls-Greenville Rd., 4.429 mi., rein.-con., $147,783.

Streets and Roads (Continued)

Geauga Co., Sect. "V-2" and "W-1" Chagrin Falls-Greenville Rd., 4.946 mi., rein.-con., $157,120.

Highland Co., Sect. "Q" Hillsboro-Chillicothe Rd., 3.91 mi., bituminous macadam, $101,638.

Sect. "P" Dayton-Chillicothe Rd., concrete bridge, $2,313. L. C. Herrick, dir. highways.

Ohio—March 8, by Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving roads in following counties:

Allen Co., Sect. "A-1" West Minster-New Hampshire Rd., 1.051 mi., Kentucky rock asphalt, $34,106; bituminous macadam, $28,304; rein.-con., $39,065.

Hardin Co., Sect. "C" Marysville-Kenton Rd., 5.826 mi., bituminous macadam either asphalt or tar filler, $173,171.

Monroe Co., Sect. "F" Woodsfield-Sistersville Rd., 3.48 mi., bituminous macadam either asphalt or tar filler, $157,496.

Trumbull Co., Sect. "B" Painesville-Warren Rd., 7.38 mi., brick, $295,195; (state to furnish brick) $200,166; rein.-con., $276,059. L. C. Herrick, dir. highways.

O., Cleveland—March 8, grading, curbing and paving Castalia Ave. N. E., Franklin Ave. N. W., Halliday Ave. N. E., Irving Ave. N. E., Kippling Ave. N. E., London Rd. N. E., Manor Ave. S. E., Marston Ave. S. E., Murray Hill Rd. S. E., Otto Court S. W., Schneider Ave. S. W., Vashti Ave. N. E., West 99th, East 112th, East 114th, East 118th, East 126th, East 134th, East 136th, East 146th and East 156th Sts. $100,000. R. Hoffman, 618 City Hall, engr.

Ind., Huntington—March 10, by Comrs. Huntington Co., grading, draining and gravel surfacing 16,124 ft. Charles Mc-Henry Rd. and $20,200 ft. John L. and Joseph L. Priddy Rd., both 20 ft. $24,125 and $26,245 respectively. O. E. Ewiston, aud.

Mich., Monroe—March 6, by F. M. Kressbach, city clk., 4,500 ft. East 4th St. from South Monroe to East Chester Sts., 12,000 sq.yd. 1 course concrete and 8,000 lin. ft. concrete curb. $60,000.

Ill., St. Charles—See "Sewers."

Wisconsin—March 14, by Wisconsin Hy. Comn., at div. office 2, Stephenson Bldg., Milwaukee, grading and paving 8.33 mi. Milwaukee-Fond du Lac Rd., Federal Aid Project 304, Washington Co., (a) 3.85 mi. on Sect. A at south end of project incl. 16,640 cu.yd. earth excav., 40,634 sq.yd. 18 ft. concrete surfacing, 13,000 bbl. cement in place, (b) 4.48 mi. on Sect. B at north end of project incl. 18,437 cu.yd. earth excav., 47,513 sq.yd. 18 ft. concrete surfacing, 16,000 bbls. cement in place, (c) 8.33 mi. Sects. A and B, entire project; 5 mi. Milwaukee-Fond du Lac Rd. northerly; Federal Aid Project 288, Dodge Co., incl. 18,425 cu.yd. earth excav., 60,725 sq.yd. concrete surfacing, 41,242 lb. reinforcing, 20,000 bbls. cement in place, etc. A. R. Hirst, state highway engr.

Wis., Kenosha—March 9, by J. F. Herzog, Comr. Kenosha Co., surfacing 5.49 mi. Geneva Rd., west, State Trunk Highway 50, (a) 29,000 sq.yd. concrete surfacing, 11,479 cu.yd. earth excav., (b) 29,097 sq. yd. concrete surfacing, 10,444 cu.yd. earth excav.; 1.97 mi. Kilbourn Rd. from Racine Co. line northwest, State Trunk Highway 57, 20,826 sq.yd. concrete surfacing, 9,305 cu.yd. earth excav., 17,700 lb. reinforcing, etc., Wisconsin Hy. Comn, 444 Milwaukee St., Milwaukee, engrs.

Wis., Waukesha—March 7, by C. J. Hahn, comr. Waukesha Co., surfacing 9.17 mi. Prospect-Mukwonago Rd. from east end of present concrete towards Mukwonago, (a) 47,289 sq.yd. concrete surfacing 20,482 cu. yd. earth excav., (b) 37,960 sq.yd. concrete surfacing, 13,745 cu.yd. earth excav., 8.8 mi. Genessee-Eagle Rd. from east end of present concrete in Genessee towards Eagle, (a) 40,885 sq.yd. concrete surfacing, and 14,718 cu.yd. earth excav., etc., (b) 52,515 sq.yd. concrete surfacing, 19,723 cu.yd. earth excav. Wisconsin Hy Comn., 444 Milwaukee St., Milwaukee, engrs.

Ia., Independence—March 8, Auditor Buchanan Co., grading and paving 15.56 mi Hawkeye Highway, east and west from here, 52,015 cu.yd. excav., 164,330 sq.yd. pavement. State Hy. Dept., Ames, engrs.

Ia., Mason City—March 13, by Auditor Cerro Gordo Co., graveling 9¼ mi. road between here, Rock Falls and Plymouth, 1,500 cu.yd. per mi., incl. furnishing 3,500 cu.yd. gravel at Mason City pits and 54,000 units of additional ½ mi. haul.

Minnesota—March 9, by State Hy. Dept., St. Paul, paving and grading 2.8 mi. highway between St. Cloud and State Reformatory, State Project 27-26, Federal Aid Project 267, Benton and Sherburne Co., 26,000 cu.yd. excav., 30,000 sq.yd. concrete, $86,627; grading State Project 7-28, Federal Aid Project 233, Nicollet Co., 164,000 cu.yd. excav. $21,000; 2 mi. State Project 15-22 Federal Project 265, Nicollet Co., 84,000 cu.yd. excav. $14,000; 8 mi. State Project 1-31, Federal Project 255, Lake Co., 65,000 cu.yd. excav., Bridge 3591, to have four 30 ft. rein.-con. girders, $21,000; 14 mi. State Project 1-30, Federal Aid Project 258, Lake and Cook Co., 150,000 cu.yd. excav., Bridge 3440, three 80 ft. steel truss spans on steel towers, $30,000; 6 mi. State Project 20-24, Federal Aid Project 253, Fillmore Co., 113,000 cu.yd. excav., Bridge 3693, one 20 ft. rein.-con. slab span, Bridge 3694, one 40 ft. rein.-con. girder, Bridge 3695, two 100 ft. steel truss spans, $30,000; 9 mi. State Project 20-25, Federal Aid Project 250, Fillmore Co., 138,000 cu.yd. excav., five bridges, 20 ft. and 30 ft. rein.-con., Bridge 3707, one 150 ft. steel truss span, Bridge 3708, one 50 ft. steel truss span. $34,000; 9 mi. State Project 29-22, Federal Air Project 262, Douglas Co., 117,000 cu.yd. excav. $18,000; 12 mi. State Project 30-23 Federal Aid Project 251, Becker Co., 165,000 cy.yd. excav. $25,000; 7 mi. State Project 8-27, Federal Aid Project 249, Itasca Co., 76,000 cu.yd. excav. $11,000; 2 mi. State Project 3-28, Federal Aid Project 263, Todd Co., 38,000 cu.yd. excav. $6,000. C. M. Babcock, comr.

Minn., Fergus Falls—March 22, by Otter Tail Co., grading 8.9 mi. Project 2201, 172,484 cu.yd. excav. etc., $40,000; 11.6 mi. Project 2202, 166,972 cu.yd. excav., $35,000; 8.4 mi. Project 2203, 100,799 cu.yd. excav., 5,628 cu.yd. hand ditching, etc., $23,000; 4.5 mi. Project 2204, 109,140 cu.yd. excav. $20,000. A. L. Flygare, co. engr. Noted Nov. 3.

Kan., Leavenworth—March 16, by Comrs. Leavenworth Co., concrete slab with necessary grading on 7,968 mi. Fort to Fort Highway, Sects. A and B, Federal Aid Project 52, 18 ft. $375,000. L. C. Clarke, Leavenworth, engr.

Wyoming—March 14, by State Hy. Dept., Cheyenne, grading and surfacing 8.566 mi. Wheatland South Rd., on Yellowstone Highway, Federal Aid Project 115, Platte Co., 24 ft., $39,000; 6 mi. road Petrie to Powder River, on Yellowstone Highway, Federal Aid Project 110, west of Casper, Natrona Co., 24 ft. $40,000. Z. E. Sevison, state highway engr. Noted Feb. 23.

Missouri—March 7, by State Hy. Dept. at div. office Bloomfield, 4.401 mi. road from Cairo to Poplar Bluff, Federal Air Project 118, Sect. A, Stoddard Co. $46,813. A. Graham, Jefferson City, state highway engr. Noted Feb. 23.

Missouri—March 10, by State Hy. Dept. at div. office Boonville, 5.57 mi. road from Boonville eastward, Federal Aid Project 24, Cooper Co., 38,697 cu.yd. earth excav., 36,200 sq.yd. broken stone base course, 36,200 sq.yd. stone for bituminous macadam surface course, 81,450 gal. bitumen and 141.4 cu.yd. concrete masonry, etc. $80,504. A. Graham, Jefferson City, state highway engr.

Missouri—March 10, by State Hy. Dept. at div. office Bloomfield, 4.501 mi. road from Canton northward and southward, State Aid Project 20,128, Lewis Co. $25,000. A. Graham, Jefferson City, state highway engr. Noted Feb. 16.

Tex., Coleman—March 13, L. G. Mathews, judge, Coleman Co., grading, gravel surfacing and bridging 22.5 mi. State Highway 23, Federal and Project 196, 48 acres clearing, 5,771.8 cu.yd. concrete, 87,331 cu. yd. borrow, 63,868 cu.yd. roadway, 2,090 cu.yd. loose and 4,997 cu.yd. solid rock excav., 367,400 lb. structural and 737,780 lb. reinforcing steel, 46,683 cu.yd. gravel surfacing. $320,000. W. E. Dickerson, co. engr. Noted Nov. 10.

Wash., Seattle—March 20, by King Co. grading and paving 3.22 mi. Newport-Bellevue Rd. connecting link of Lake Washington paved highway. $88,000. T. R. Beeman, 7807 Woodland Pk., engr. Noted Feb. 16.

Cal., Modesto—March 14, by C. C. Eastin, Jr., clerk Stanislaus Co., constructing 1,701 ft. concrete highway, 15 ft. wide, 4 in. thick. J. H. Hoskins, surv.

Cal., Oroville—March 8, by Supervs. Butte Co., grading roadway and asphaltic concrete paving in two courses, 182,000 sq. ft. Chico-Butte City Rd., Sect. B, Route 11; 245,000 sq.ft. Chico-Butte City Rd., Sect. C, Route 11; 690,000 sq.ft. Oroville-Marysville Rd., Sect. D, Route 26; 243,000 sq.ft. Oroville-Gridley Rd., Sect. B, Route 2. H. H. Hume, co. road engr.

Cal., South Pasadena—March 13, by City Clerk, curbing, guttering and paving Spruce St., 740 lin.ft. concrete curb, 7,500 sq.ft. concrete gutter, 3,600 sq.ft. cement sidewalk, 4,500 cu.yd. earth excav. and 7,600 ft. waterbound macadam, etc. R. V. Orbison, city engr.

BIDS RECEIVED

New York—H. S. Sisson, comr. highways, Albany, opened bids Feb. 24, improving 3.25 mi. Becker-Callanan Corners, Highway 1562, Albany Co., from L. Mayersohn, 6 Catalpa Dr., Albany, $85,466. J. J. Bellotte & Sons Constr. Co., Troy, $88,419. Walsh Eng. & Contg. Co., Inc., New York, $88,573; 0.73 mi. Lisle Village: Main St. Highway 1608, Broome Co., from Stento & Serafini, 84 Court St., Binghamton, $46,460. A. Yesu, 27 Carroll St., Binghamton, $46,534. O'Day & Ambrose, Binghamton, $47,326. 5.73 mi. Port Byron-Conquest, Highway 8087, Cayuga Co., from Pathfinder Constr. Co., Inc., Fulton, $179,995. E. W. Foley Contg. Corp., 1 East Main St., Waterloo, $184,656. G. W. Chambers, 40 Tremont St., Rochester, $193,825; 7.9 mi. Plattsburg-Chazy, Part 2 A and Plattsburg-Chazy, Part 2 B, Highways 5669 and 8088, Clinton Co., from Smith Bros. Constr. Co., Cleveland Bldg., Watertown, $240,655. J. J. Frodella Co., Glens Falls, $247,485. J. B. Dower, 30 Blood St., Ballston Spa, $254,015; 3.76 mi. Holland-Yorkshire, Part 2, Highway 8086, Erie Co., from Wieberg Bros., Forks, $117,824. Hendrickson-McCabe Constr. Co., Inc., Syracuse, $120,620. Oatka Eng. & Contg. Co., Inc., Warsaw, $121,632; 9.41 mi. Batavia-Bergen, Parts 2 and 3, Highway 8089, Genesee Co., from E. J. Bailey, Brocton, $268,677. Harrison Eng. & Constr. Corp., Ellicott Sq., Buffalo, $268,751. C. H. Sage, Batavia, $269,931; 8.5 mi. Cold Brook-Nobleboro, Part 3, Highway 8090, Herkimer Co., P. Morford and C. J. Nitsch, Fultonville, $243,075. R. Hopkins, 824 2nd Ave., Troy, $252,728. Lawton & Van Wirt, Glens Falls, $254,327; 1.06 mi. Fonda Village: Main St., Highway 5667, Montgomery Co., from J. B. Fazio, 4 Leonard St., Oneida, $57,765. J. B. Dower, 30 Broad St., Ballston Spa., $59,760. Koetteritz & Blakeslee, 547 East Main St., Little Falls, $59,790; 2.25 mi. Clarendon-Byron, Part 2, Highway 1607, Orleans Co., from Sweeney & Boland, Rochester, $43,244. F. H. Rhodey, Albion, $44,364. Rochester Foundation Co., Inc., Rochester, $44,874; 4.11 mi. Scotia-Saratoga Co. line, Part 2, Highway 1609, Schenectady Co., from J. J. Bellote & Son Constr. Co., Troy, $129,674. Amer. Pipe & Constr. Co., 112 North Broad St., Phila., $133,785. Berkshire Constr. Co., Inc., Lee, Mass., $135,646. Noted Feb. 9.

N. Y., New York—J. Miller, pres. Manhattan Boro, opened bids Feb. 24, paving (1) roadway of 32nd St.; repaving (2) roadway of 5th Ave., (3) roadway of Chambers St., (4) roadway of 3rd St., from Regan Towers Co., 124 West 121st St., (1) $10,407; C. D. Beckwith, Inc., 301 West 108th St., (1) $12,256; Burnside Contg. Co., 270 Burnside Ave., (1) $12,452, (4) $27,343; Asphalt Constr. Co., Madison Ave. and 137th St., (2) $46,448; W. J. Fitzgerald, 547 West 45th St., (2) $49,134; Uvalde Asphalt Paving Co., 1 Bway., (2) $53,949; J. Meehan & Son, 74 Cortlandt St., (3) $12,793; M. I. Sachs, 246 South 9th St., Brooklyn, (3) $13,010, (4) $24,855; D. J. McCarthy, 88 Audubon Ave., (3) $13,180; C. Helbock Co., 633 Wales Ave., (4) $27,281. Noted Feb. 16.

W. Va., Huntington—Cabell Co. opened bids Feb. 15, grading and paving 1.9 mi. Long Branch Rd., concrete, from G. L. Pence, c/o J. N. Doyle, co. road engr., Huntington, $59,000; paving 2.14 mi. Seven Mile Rd., cement from J. E. Dougher & Son, c/o J. N. Doyle, co. road engr., Huntington, $65,000; about 5 mi. Barboursville-Salt Rock Rd., sand cushion brick, from Hatfield Constr. Co., Huntington, $146,798. Noted Jan. 26.

Ohio—Dept. Highways and Pub. Wks., Columbus, opened bids Feb. 24, grading, bridging and paving roads with (a) brick, (b) state to furnish brick, (c) concrete, (d) asphaltic macadam, (e) tar macadam, (f) rein.-con., (g) sheet asphalt, (h) oil, (i) lake in following counties: Coshocton Co., Sect. "F" Newcomerstown-Coshocton Rd., 4.184 mi., from W. C. Brode Co., Newcomerstown, (a) $120,995, (c) $106,910; Newark Paving & Constr. Co., Newark, (a) $140,837, (b) $96,826, (c) $115,614; Holmes Constr. Co., Millersburg, (a) $138,087, (b) $92,145, (d) $103,008, (e) $103,006; J. P. Munaw, Cambridge, (b) $104,092; W. H. Ringwald Co., Chillicothe, (c) $111,482; G. W. Hadley, Canton, (d) $108,936, (e) $108,936; Russell Bros., West Austintown, (d) $109,179, (e) $109,179. Crawford Co., Sect. "K" Columbus-Sandusy Rd., 2.034 mi., from A. J. Baltes, Norwalk, (a) $75,098, (b) $54,394; H.

Streets and Roads (Continued)

Candel, Chatfield, (a) $76,520; Newark Paving & Constr. Co., Newark, (a) $77,558, (b) $58,509; F. F. Scott, Marion, (b) $58,616; Homeberger-Wagar Co., Feick Bldg., Sandusky, (c) $61,449; Scioto Constr. Co., Kenton, (c) $62,864, (d) $54,105; W. L. Thompson, 1301 West 102nd St., Cleveland, (c) $63,733; Pettibone & Graves, Lakeside, (d) $54,113, (e) $54,113; W. H. and H. A. Souder, Fostoria, (d) $57,456, (e) $57,456; C. M. Gray, Waterville, (e) $57,647. Frankin Co., Sect. "A" Columbus-Millersburg Rd., 3.64 mi., from Newark Paving & Constr. Co., Newark, (a) $150,670, (b) $110,730; B. F. Patterson, Columbus, (a) $153,245; W. H. Ringwald Co., Chillicothe, (a) $153,414; Homeberger-Wagar Co., Feick Bldg., Sandusky, (b) $109,021; J. M. Snouffer, 409 East 16th Ave., Columbus, (b) $119,081; F. F. Scott, Marion, (d) $89,970; A. W. Burns & Co., Stoneman Bldg., Columbus, (d) $92,500, (e) $93,600, (f) $111,300; Radebaugh & Graham, Columbus, (d) $96,094, (f) $11,567; M. C. Miller, 314 East Northwood Ave., Columbus, (e) $99,949; W. H. and H. A. Souder, Fostoria, (e) $96,094; Homeberger-Wagar Co., Feick Bldg., Sandusky, (f) $108,576; Cleveland Trinidad Paving Co., Grand Theatre Bldg., Columbus, (h) $132,670, (e) $139,389; Franklin Paving Co., Columbus, (h) 136,318, (i) $154,276; B. F. Patterson, Columbus, (h) $140,000, (i) $145,599; Andrews Asphalt Paving Co., Hamilton, (h) $136,357; Knight & Wells, Columbus, $135,894. Huron Co., Sect. "Monroeville" Bellevue-Norwalk Rd., 0.61 mi., from Modern Constr. Co., Fremont, (a) $21,946, (b) $14,588; A. G. Witte & Son, Elmore, (a) $22,252; Lee Bros. and Petticord, Clyde, (a) $22,923; A. J. Baltes, Norwalk, (b) $15,167; G. B. Herrin & Son, Celina, (b) $16,317. Noted Feb. 9.

O., Cleveland—Opened bids laying (1) 110,000 sq.ft. long term and (2) 155,000 sq.ft. short term cement sidewalks, in (a) Northerly Dist., (b) Southerly Dist., (c) Western Dist., from McGrath Const. Co., Cleveland, (1a) $19,624, (2a) $10,548, De Santos Constr. Co., East 22nd St. and Woodland Ave., (1a) $21,122, (2a) $10,856, Rieley Bros., The Arcade, (1b) $11,285, (2b) $5,642, (1c) $15,972, (2c) $7,986; laying (1) 207,000 sq.ft. long term, (2) 173,500 sq.ft. short term stone sidewalks in Northerly, Southerly and Westerly Dists., from Ohio Quarries Co., Citizens Bldg., (1) $158,730, (2) $60,372.

O., Cleveland—Opened bids Feb. 15, grading, curbing and paving (1) East 96th and East 97th Sts., (2) East 99th St., (3) Mt. Overlook Ave., (4) East 97th St., (5) Adelbert Rd., 8,840 lin. ft. curb and gutter, 5,540 cu.yd. earth excav., 7,501 sq.ft. asphalt and 154,440 sq.ft. vitr. brick on 6 in. concrete, from H. G. Herring, c/o Pavers Exch., Society for Savings Bldg., (1) $17,283; Gould & Maybach, 823 East 150th St., (1) $18,728; Enterprise Paving & Constr. Co., 8444 Bway., (2) $11,602, (4) $5,485; Cleveland Trinidad Paving Co., The Arcade, (2) $12,337, (5) $20,856; Burnett & Hathaway, c/o Pavers Exch., Society for Savings Bldg., (3) $18,601, (4) $5,518; Rieley Bros., The Arcade, (3) $19,360; T. E. McShaffrey, Forge St., Akron, (5) $22,637. Noted Feb. 9.

O., Cleveland—Opened bids Feb. 15, grading curbing and paving (1) West 94th St., (2) East 98th St., (3) Wichita Ave., (4) East 94th St., (5) Everett Ave., (1-5 inclusive) involve 9,150 lin. ft. curb and gutter, 6,892 cu.yd. earth excav. and 130,200 sq.ft. vitr. brick on 6 in. concrete, (6) Aspinwall Ave., (7) Zimmer Ave., (8) Woodside Ave., (9) West 21st St., (10) Grandview Ave., (6-10 inclusive) involve 5,600 lin. ft. curb and gutter, 6,870 cu.yd. earth excav., 1,416 sq.yd. asphalt, 120,616 sq.ft. vitr. brick on 6 in. concrete, (11) East 126th St., (12) Edmonton Ave., (13) East 119th St., (14) East 129th St., (15) East 153rd St., (11-15 inclusive) involve 8,460 lin. ft. curb and gutter, 6,780 cu.yd. earth excav., 3,207 sq.yd. asphalt and 113,240 sq. ft. vitr. brick on 6 in. concrete, from Freshwater Constr. Co., Natl. Bldg., (1) $33,407, (6) $13,568, (7) $7,064, (9) $2,203; Roehl Bros., West 25th St. and Clark Ave., (1) $33,555, (3) $17,717, (4) $8,428, (7) $7,168, (9) $2,092; Enterprise Paving & Constr. Co., 8444 Bway., (2) $7,144; Burnett & Hathaway, c/o Pavers Exch., Society for Savings Bldg., (2) $7,180; Baldwin Bros., 4500 Euclid Ave., (3) $17,957, (5) $1,202, (11) $26,855, (12) $6,824, (13) $6,442; H. G. Herring, c/o Pavers Exch., Society for Savings Bldg., (4) $8,229; Gould & Maybach, 823 East 150th St., (5) $1,177, (6) $13,381, (12) $6,716, (15) $5,203; Cleveland Trinidad Paving Co., The Arcade, (8) asphalt, $6,901, (14) asphalt, $14,652; T. E. McShaffrey Co., Forge St., Akron, (8) asphalt, $7,100, (14) asphalt, $15,155; Rieley Bros., The Arcade, (10) $27,382, (15) $5,368; Bentley Bros., 1836 Euclid Ave., (10) $27,643; A. M. Pejsa, Euclid Heights Blvd., Cleveland Heights, (11) $27,352, (13) $6,426. Noted Feb. 9.

Wis., Viroqua—Opened bids Feb. 21, paving 1.1 mi. Main and other streets, (1) rein.-con., (2) asphalt, from Lampert Constr. Co., 104 Main St., Oshkosh, (1) $2.55, (2) $3.50; Stein Constr. Co., 204 Grand Ave., Milwaukee, (1) $2.68; Widdell Co., 229 South Front St., Mankato, Minn., (1) $2.74. Noted Feb. 9.

Missouri—State Hy. Dept. at div. office Hermann, opened bids Feb. 16, 2.244 mi. road from Mt. Sterling to Drake, State Aid Project 20.124, Gasconade Co., (1) 19,889 cu.yd. earth excav., (2) 8,126 cu.yd. rock excav., (3) 2,083 cu.yd. borrow, etc., from J. McMahon, 5931 Pershing Ave., St. Louis, (1) $0.35, (2) $1.55, (3) $0.30, total $31,120; J. T. Moss, Clayton, (1) $0.35, (2) $1.60, (3) $0.30, $31,747; Ramsey & Reynolds, St. Genevieve, (1) $0.34, (2) $1.50, (3) $0.32, $33,203. Noted Jan. 26.

537

items last week as follows

	Bids Wanted	Bids Rec'd.	Contracts Let
Waterworks	5	2	5
Sewers	9	2	4
Bridges	4	4	9
Dredging	3	1	2
Roads	40	7	19
Industrial	8		18
Buildings	32	5	21
Federal	9	2	1
Miscellaneous	17	9	5
	127	32	84

On projects that have not yet reached the stage when bids are desired

294 tips were published

This is a good field for salesmanship. Cultivate it every week and reap the harvest.

Missouri—State Hy. Dept. at div. office, Kennett, opened bids Feb. 17, 9.022 mi. road from Dexter to Kennett, Federal Aid Project 183, Sect. A, Dunklin Co., (1) 26,409 cu.yd. earth excav., (2) 85,205 sq.yd. gravel pavement, etc., from A. Creek, Gideon, (1) $0.20, (2) $0.80, total, $87,098; J. E. Craine, Murphysboro, Ill., (1) $0.25, (2) $0.85, $97,024; Novaculite Constr. Co., Marion, Ill., (1) $0.19, (2) $0.93, $97,352. Noted Feb. 2.

Missouri—State Hy. Dept. at div. office Moberly, opened bids Feb. 10, (1) 6.383 mi. road from Huntsville to Keytesville, Federal Aid Project 44, Sect. A, Randolph Co., (2) one 40 ft. rein.-con. through girder skewed, one 75 ft. pony truss span with two 20 ft. rein.-con. slab spans and one 16 ft. rein.-con. slab span skewed, 18 ft. roadways, from A. P. Munsen, Marion, Ia., (1) $21,083, (2) $16,651; Thompson & McDaniel, Wapello, Ia., (1) $21,147; Farrell, Dubrouillet & Cushion, Linn, (1) $22,524, (2) $17,397; Lynch-McDonald Constr. Co., Moberly, (2) $17,703. Noted Jan. 26.

Ariz., Phoenix—Maricopa Co. Hy. Comn. paving 160 mi. (1a) 6 in. concrete, (1b) 5 in. (2a) 6 in. asphalt concrete, (2b) 5 in., (3a) 6 in. bitulithic, (3b) 5 in., from Twohy Bros., 318 North Central Ave., (1a) $2.31, (1b) $2.02; Independent Asphalt Paving Co., Seaboard Bldg., Seattle, Wash., (1a) $2.51, (1b) $2.28; Warren Constr. Co., Park Rose, Portland, Ore., (1a) $2.49, (1b) $2.29, (2a) $2.10, (2b) $1.91, (3a) $2.21, (3b) $2.01; California Constr. Co., San Francisco, Cal., (2a) $2, (2b) $1.75. Noted Jan. 12.

California—State Hy. Comn., Sacramento, grading and surfacing 16.76 mi. highway between San Felipe and easterly boundary, Santa Clara Co., (a) 182,000 cu.yd. excav., (b) 26,000 cu.yd. gravel surfacing, (c) 1,300 cu.yd. Class A Portland cement concrete, culverts and monuments, (d) 250 cu.yd. Clas C Portland cement concrete, retaining walls, (1) corrugated metal pipe, (2) rein.-con. pipe, from Rhodes & Price, Hilt, (a) $0.72 per cu.yd., (b) $1.50, (c) $15, (d) $10, total with (1) $195,891, with (2) $203,467, W. A. Dontanville, Hollister, (a) $0.64, (b) $1.95, (c) $20, (d) $19, total with (1) $202,669, with (2) $205,241, Sherer & Crowley, Los Angeles, (a) $0.70, (b) $2, (c) $25.75, (d) $22.50, total with (1) $223,620, with (2) $229,889; paving 1 mi. highway between King City and south side of Salinas River, 2 Monterey Co., (a) 1,000 cu.yd. excav., (b) 2,000 ton asphaltic concrete pavement, from J. A. Costello, Jr., 1083 Shotwel St., San Francisco, (a) $0.60 per cu.yd., (b) $11, total $22,600, G. Smith & Co., Flood Bldg., San Francisco, (a) $1, (b) $11.25, total $23,500; paving 17.3 mi. highway betwen Forsythe Creek and Outlet Creek, Mendocino Co., (a) 30,000 cu.yd. excav., (b) $23,050 cu.yd. Class A Portland cement concrete pavement, alternative items, (c) $59,800 ton broken stone, bituminized macadam, (d) 840 ton oil asphalt grade E spread, bituminized macdam, from Conners & Hansen, Santa Rosa, (a) $1, (b) $10.65, total $275,483, (c) $3.83, (d) $19, total $274,994, Rich & Markhus, Missoula, Mont, (a) $1.50, (b) $10.05, total $276,653. Mercer Fraser Co., 1st and G Sts., Eureka, (a) $0.90, (b) $11.30, total $287,465, Warren Constr. Co., Park Rose, Portland, Ore., (a) $1, (c) $4.14, (d) $26, total $299,412, G. Smith & Co., Flood Bldg., San Francisco, (a) $1.50, (c) $4.75, (d) $9.50, total $337,030. Noted Jan. 26.

CONTRACTS AWARDED

Connecticut—State Hy. Dept., Hartford, paving 44,000 ft. Durham Rd., Guilford, to F. Arrigoni & Bros., 605 Main St., Middletown, $145,000; 17,800 ft. Westfield Rd., Granby, to L. Suzio Constr. Co., State and Brooks Sts., Meriden, $65,000; 3,800 ft. Litchfield-Torrington Rd., Litchfield-Torrington, to Mascetti & Holley, 561 South Main St., Torrington, $32,000; 15,050 ft. Litchfield Rd., Goshen, to Ossola & Besozzi, 164 Pythian Ave., Torrington, $42,000; 17,000 ft. Colchester-Norwich Rd., Lebanon, to A. Brazos & Sons, 66 Oak St., Middletown, $50,000; 12,500 ft. Waterbury-Torrington Rd., Thomaston, to C. Vacca, Terryville Rd., Bristol, $58,000; 9,275 ft. Grosvenordale-Mechanicsville Cut-off, Thompson to G. T. Seabury, Inc., 100 Summer St., Providence, R. I., $44,000; 5,000 ft. Quaker Farms Rd., Oxford, to J. E. McGann, Jr., 42 Church St., New Haven, $15,000; 8,400 ft. Sherman Rd., New Milford, to C. W. Blakeslee & Sons, Inc., 58 Waverly St., New Haven, $56,000. Noted Feb. 9.

N. Y., Mayville—Chautauqua Co., 4.5 mi. road between South Dayton and Smith Mills, to J. S. Hart, Westfield, $119,348; 1.94 mi. road in Cassadaga, to T. Fitzgerald, 89 Glisan St., Fredonia, $57,800, both concrete.

N. Y., New York—Park Bd. at office Dept. Parks, Municipal Bldg., paving, setting and resetting curbstones and otherwise improving public driveway between 155th and 166th Sts., to C. D. Beckwith, Inc., 2875 Bway., $70,704. Noted Feb. 16.

N. J., Englewood—Mayor and Boro Council, furnishing, delivering and spreading or furnishing in railroad tank cars, f.o.b. Englewood siding, 135,000 gal. asphalt 75-85 penetration in quantities required, to Standard Oil Co. of New Jersey, 31 Clinton St., Newark, $0.0625 per gal. Noted Jan. 26.

N. J., Woodbury — Bd. Freeholders Gloucester Co., reconstructing State Highway, Route 6, Sect. 6, Oldmans Creek to Mullica Hill, rein.-con., to M. Staub, Swedesboro, $203,660. Noted Jan. 26.

West Virginia—State Hy. Dept., Charleston, concrete paving 14.5 mi. Rainelle Rd., Project 77, Greenbrier Co., to Sutton Constr. Co., Ashland, Ky., $319,310. Former contract rescinded. Noted Feb. 2.

Streets and Roads (Continued)

North Carolina—State Hy. Comn., Raleigh, grading and topsoiling 15.18 mi. State Project 195, Washington Co., to L. M. Lee & Co., Emporia, Va., $38,540, rein.-con. bridges and culverts to B. J. Boyles, Wilson, $21,115; grading and bridging 14.35 mi. State Project 185, Pitt Co., to J. A. Marrow, Clarksville, Va., $28,245; grading and Willite paving on 3½ in. bituminous base, 3.44 mi. State Project 313, Brunswick Co., to Southern Willite Paving Co., 518 East Franklin St., Richmond, Va., $86,140; clearing, grading, artificial sand-clay surfacing and bridging 15.82 mi. State Project 314, Brunswick Co., to Hagedorn Constr. Co., Winston-Salem, $99,320; grading, topsoiling and bridging 9.05 mi. State Project 364A, Onslow Co., to R. E. Martin, Mountain City, Pa., $40,580; grading, Topeka paving and bridging 15 mi. State Project 125, Edgecombe Co., to R. G. Lassiter & Co., Citizens Bank Bldg., Raleigh, $387,671; grading and plain concrete paving 3.77 mi. State Project 526, Davidson Co., to Hagedorn Constr. Co., Winston-Salem, $111,340, rein.-con. bridges and culverts to Heilig & Sherrill, Winston-Salem, $7,592. Noted Feb. 16.

N. C., Greensboro—Guilford Co. grading and paving 5.6 mi. road between Gibsonville and Kernodles Mill, 2 in. Topeka on 5 in. concrete, to R. G. Lassiter & Co., Citizens Bank Bldg., Raleigh, $116,695. Noted Feb. 23.

Fla., Lake Wales—Town Council, streets listed under group A, 39,000 sq.yd. vitr. brick, 4½ mi. 1-2-4 concrete curbing, to Westport Paving Brick Co., Westport, (Baltimore, P. O.), $1.60 per sq.yd. for brick, f.o.b. Lake Wales, Texas Oil Co., Maryland Ave., Tampa, $27 ton for asphalt filler, f.o.b. Lake Wales, Stidham & Hughes, Lakeland, 6 x 12 in. curb, $0.53, 5½ x 15 in., $0.33; streets listed under Group B, 113,000 sq.yd. 2 in. asphalt on 5 in. stone, 14 mi. concrete curbing, to Stidham & Hughes, Lakeland, $0.69 base, $0.83 surface, $0.53, $0.33 and $0.21 curb; streets listed under Group C, $31,000 sq.yd. 2 in. asphalt on 5 in. stone, 8 mi. concrete curb, to Stidham & Hughes, Lakeland, $0.69 base, $0.83 surface, $0.53, $0.33 and $0.21 curb, $0.40 grading. Noted Jan. 19.

Fla., Sanford—Comrs. Seminole Co. paving, asphalt and granite chip on rock, 37,000 sq.yd. Oviedo Golden Rod Rd., and 21,000 sq.yd. on road from Chuluota to county line and on Osceola Rd., to Maule & Snyder, Ojus, $58,103 and $31,995 respectively. Noted Jan. 19.

Fla., Tampa—Paving Amelia St., asphalt, to Fish Bros., Forest Ave., $2.20 per sq.yd.; asphalt paving and granite curbing Albany and Stewart Sts. and granite curbing Amelia St. to W. H. Kendrick, Tampa, $2.45 per sq.yd. for paving, $0.55 for curbing. Noted Jan. 19.

Ohio—Dept. Highways and Pub. Wks., Columbus, grading bridging and paving 2.95 mi. Sect. "C" McArthur-Galliopolis Rd., Vinton Co., to J. M. Mumaw, Cambridge, $41,659; 2.81 mi. Sect. "P" Pomeroy-Athens Rd., Athens Co., brick, to F. H. Beckler, Athens, $126,459; 4.07 mi. Sect. "A" Bryan-Ft. Wayne Rd., Defiance Co., rein.-con., to Putnam & Shindledecker, Van Wert, $107,731; 1.25 mi. Sect. "Sherwood" Paulding-Bryan Rd., Defiance Co., rein.-con., to W. L. Johnson Co., Hicksville, $40,825; rein.-con. bridge over Hamilton Run on Sect. "New Holland" Cincinnati-Zanesville Rd., Pickaway Co., to C. J. Wibble, Westboro, $3,249. Noted Feb. 9 and 23.

Ohio—Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving 1.51 mi. Sect. "T" Warren-Sharon Rd., to J. DeJute, Niles, $61,211. Noted Feb. 2.

O., Cleveland—Comrs. Cuyahoga Co. grading and paving Front St. from Bagley Rd. to Berea Village line, to Cleveland Trinidad Paving Co., The Arcade, $45,490. Noted Feb. 9.

O., Columbus—W. H. Duffy, dir. Pub. Serv., grading, laying water mains and paving 1,323 ft. Nashoba Ave., asphalt to Cleveland Trinidad Paving Co., The Arcade, Cleveland, $18,481; 2,254 ft. Northmoor Pl., asphalt, to F. B. Patterson, Columbus, $33,766; 380 ft. alley north of Fair Ave., 566 ft. alley north of Deshler Ave., 347 ft. alley west of Linwood Ave. and 555 ft. alley west of Fairwood Ave., all concrete, to R. J. Deinst, Columbus, $2,125, $2,740, $1,684 and $1,267 respectively; 736 ft. 17th Ave., concrete, to Franklin Asphalt Paving Co., 209 South High St., $5,527. Noted Feb. 16.

O., Somerset—Grading and paving various streets, to Brewer & Brewer, Chillicothe, $78,000. Noted Feb. 2.

Ind., Valparaiso—Comrs. Porter Co., grading, draining and gravel surfacing 23,601 ft. Valentine Hahn Rd. and 15,882 ft. Frank Fottz Rd., both 20 ft., to A. Halloway, Yeomans, $42,000 and $29,100 respectively.

Ill., Herrin—Concrete paving 8,900 sq.yd. Freeman Mine Rd., Herrin Twp., to Keeley Bros., East St. Louis, $45,363. Noted Jan. 19.

Wis., Green Bay—Wisconsin Pub. Serv. Co., 559 Marshall St., creosoted block pavement on Walnut St. Bridge, to Klug & Smith, 40 Mock Blk., Milwaukee, $25,000.

Ia., Clarinda—For 35,000 sq.yd. paving and 34,000 ft. curb and gutter, to J. S. McLaughlin & Sons, Mankato, Minn., $162,000. Noted Jan. 26.

Ia., Ft. Dodge—Webster Co. grading 15.98 mi. Primary Rd. Project 64. 77,513 cu yd. excav., to W. Dutton, Boone, $0.219. Noted Jan. 19.

Minn., Detroit—For 10,000 cu.yd. excav., 30,000 sq.yd. brick paving and 9,500 lin. ft. curb and gutter, to W. S. Birch & Sons, 211 Front St., Fargo, N. D. $148,535. Noted Feb. 2.

Minn., Duluth—B. Farrell, city comr., paving and curbing 2,700 ft. 10th St. from 9th Ave. E. to Parkland Ave., 6,700 sq.yd. concrete, 4,850 lin.ft. concrete curbing, 25,000 sq.yd. concrete sidewalk, to Olson & Johnson, 411 Michigan Ave., $30,283.

Minn., Fairmount—Martin Co., grading 8 mi. State Rds. 6, 7 and 10, 100,000 cu.yd. excav., to C. W. McNamara, Fairmount, $32,835. (Taking in part payment county's outfit at $8,000.) Noted Feb. 2.

Minn., Litchfield—Meeker Co., Job 2201, to C. Weaver, 425 Rice St., Anoka, $17,348; Job 2202, to W. N. Petrie, Chaplin St., Anoka, $15,994; Job 2203, to Volden Bros., Milan, $11,290. Noted Feb. 9.

Kan., Pittsburgh—City and Crawford Co. improving ½ mi. North Bway., 40 ft., to Thogmartin Dubru, Pittsburg, $33,672.

Missouri—State Hy. Dept. at div. office Neosho, 9.957 mi. road from Seneca to Neosho, Federal Aid Project 182, Newton Co., to J. P. Wolfenberger, Neosho. $51,753. Noted Feb. 23.

Ark., Osceola—Dirs. of Basset & Wardell Rd. Impvt. Dist. 3, Mississippi Co., 12 mi. earth road, incl. 86,000 cu.yd. earth excav., 11 acres clearing, 600 cu.yd. concrete in place in culverts, 80,000 lb. reinforcing; earth work to Lowrance Bros. & Co., Memphis, Tenn., culverts to Nelsen Concrete Culvert Co., Jonesboro.

Tex., Canadian—Paving various streets to Panhandle Constr. Co., Lubbock, $46,389. Noted Feb. 23.

Tex., Marshall—Improving Courthouse Sq., 3 in. vertical fibre brick, asphalt filler on 4 in. concrete, to Cocke & Turner, Marshall, $2.80 sq.yd., total $51,241. Noted Jan. 19.

Wash., Yakima—Paving West Chestnut St., 15,000 sq.yd. 1 course concrete, to R. M. Hardy, Yakima, $49,831.

Cal., Martinez—Supervs. Constr. Costa Co., constructing 7 mi. highway between San Pablo Canyon and Orlinda Park, to Downer & Mero, 2334 Macdonald Ave., Richmond, $185,860. Noted Feb. 19.

Cal., Newman—Improving 10 blocks, Warrenite surface bitum. base, to Warren Constr. Co., Rialto Bldg., San Francisco, $144,636. Noted Feb. 9.

Industrial Works

PROPOSED WORK

Me., Kittery—Turner Centre Creamery, Turner, plans 2 story creamery, here. $60,000. Private plans.

Me., Springvale—Goodall Worsted Co., Sanford, having revised plans prepared by Lockwood, Greene & Co., archts. and engrs., 60 Federal St., Boston, 5 story, 240 x 280 ft., rein.-con. and brick, mill and storage plant, River St., here.

Mass., Malden—Yale Knitting Co., Sherman St., having plans prepared by Lockwood, Greene & Co., archts. and engrs., 60 Federal St., Boston, 4 story addition to plant.

Mass., Westfield—H. B. Smith Co., 57 Main St., plans 1 story, 30 x 140 ft., brick and steel addition to machine shop. Private plans.

R. I., Hillsgrove—Rhode Island Malleable Iron Wks. plans 1 story, brick and steel addition. $75,000. Private plans.

Conn., Hartford—Imperial Dyeing Wks., 214 Park St., having plans prepared by Berenson & Moses, archts., 1026 Main St., 1 story, 125 x 130 ft., brick and steel plant, plain foundation, Park St. $50,000.

Conn., Stamford—F. Urso, archt., 453 West Main St., preparing plans 1 and 2 story, 50 x 200 ft. shirt factory, concrete, brick and steel, Pacific St. $40,000. Owners' name withheld.

Pa., Phila.—J. J. Greenberg, c/o L. B. Rothchild, archt., 12th and Sansom Sts., having plans prepared and soon takes bids 8 story, 102 x 180 ft. rein.-con. warehouse, plain foundation, 24th and Walnut Sts. $500,000.

Pa., Phila.—G. H. Thirsk, 4305 Horrocks St., soon takes bids 3 story, 43 x 289 ft. brick and steel garage and storage building, plain foundation, Adams and Wingohocking Aves. $100,000. Private plans.

Pa., Reading—Lockwood, Greene & Co., archts. and engrs., 60 Federal St., Boston, soon lets contract 3 story, 50 x 400 ft. concrete and brick addition to mill, for Reading Cotton Mills. Cost between $175,000 and $200,000.

Va., Pulaski—Paul Knitting Mills had plans prepared by F. S. Stone, archt. and engr., Roanoke, 2 story, 40 x 77 ft. mill building, 1 story, 40 x 77 ft. dyeing room and 1 story, 30 x 40 ft. stock room, steel and brick.

W. Va., Charleston—Mountain State Motor Car Co., 12 McFarland St., having preliminary plans prepared 2 story, 80 x 220 ft., repair shop and garage. $100,000. Private plans.

N. C., Gastonia—A. M. Smyre Mfg. Co. soon receives bids 2 story, 125 x 300 ft. yarn mill, steel and brick, plain foundation. R. C. Biberstein, 614 Elizabeth Ave., Charlotte, archt. and engr.

Tenn., Nashville—City plans to rebuild light plant, recently destroyed by fire, 1st St., N. $100,000. W. Southgate, city engr. Architect not selected.

O., Cleveland—Thayer-Norton Co., 3136 West 63rd St., having plans prepared by Anders-Reimers, archts., Erie Bldg., 3 story addition to beef plant, brick and steel, plain foundation, West 65th St. along tracks of Cleveland, Cincinnati, Chicago & St. Louis R.R. $100,000.

O., Tippecanoe City—Election in March to vote on $60,000 bonds for rebuilding and adding to electric light plant and waterworks. Address E. H. Kerr, Tippecanoe City, atty.

Ind., Crawfordsville—R. R. Donnelly Co., 731 Plymouth Ct., Chicago, plans printing plant, brick, here. $250,000. H. Shaw, 39 South State St., Chicago, archt.

Ind., Evansville—J. H. Kreipke Co., 512 West Franklin St., plans 3 story, 133 x 80 ft. brick and concrete warehouse and workshop, West Franklin St. $40,0000. Architect not selected.

Ind., Ft. Wayne—Goodman & Co., Bayer Bldg., plans 2 story, 100 x 200 ft., brick factory. $50,000. J. A. Goodman, pres. Architect not selected.

Ind., Huntington—Huntington Ice Co., Inc., plans 2 story, brick plant. $40,000. Architect not selected.

Mich., Detroit—Mills Baking Co., 5165 4th Ave., having plans prepared by Smith, Hinchman & Grylls, archts., 710 Washington Arcade, 2 story, concrete, brick and steel addition, plain foundation. $40,000.

Ill., Brisbane—Western Union Telegraph & Cable Co., c/o A. C. Isenhoff, Joliet, having plans prepared 1 story creosoting plant, brick and steel, here. $60,000. Private plans.

Ill., Danville—Aschauer & Waggoner, arrchts., Citizens Bank Bldg., Decatur, preparing plans 1 story garage and heating plant, brick, stone rein.-con. and steel, here. $50,000. Owners name withheld.

Ill., Decatur—Illinois Traction System, Mayer Bldg., Peoria, having plans prepared 1 story, electric generating plant, brick and rein.-con., here. $600,000. H. E. Chubbuck, mgr. Private plans.

Ill., Joliet—Union Coal Transfer and Warehouse Co. plans 1 story, 50 x 160 ft. warehouse and ice plant, brick, steel and concrete, and elevated steel tank, Henderson St. $40,000. A. Lindberg, genl. mgr. Private plans.

Ill., Rockford—Shurtleff Ice Cream Co., c/o C. Souton, 103 South Main St., having plans prepared by F. A. Carpenter, archt., Brown Blk., 2 story, 50 x 110 ft. factory addition, rein.-con., brick and stone. $50,000.

Wis., Greenville—E. Schroeder plans 1 and 2 story, 50 x 90 ft. garage and repair shop, brick and rein.-con., plain foundation, Main St. $40,000. Architect not selected.

Wis., Menasha—United States Tractor and Mchy. Co., 6th St., plans 2-3 story, 150 x 190 ft., brick, rein.-con. and steel factory, plain foundation. $100,000. Architect not selected.

Wis., Jim Falls—Jim Falls Co-op. Creamery c/o T. Saltsgarber, Jim Falls, plans 1 story, 50 x 170 ft. dairy and creamery, brick, plain foundation. $50,000. Architect not selected.

Industrial Works (Continued)

Wis., Racine—W. J. Redden, archt., 2819 Arlington Ave., soon takes bids 1 story, 85 x 100 ft., brick and concrete garage, plain foundation, West 6th St., for Jacobson Auto Co., 1713 West 6th St. $45,000.

Wis., Sheboygan—H. C. Prange Co., 8th and Wisconsin Ave., and W. C. Weeks, archt., 720 Ontario Ave., open bids about March 15, 3—4 story, 65 x 90 ft. power and heating plant, brick, rein.-con. and steel, plain foundation, 8th St. $60,000. Noted Jan. 19.

Wis., Tomahawk—R. F. Koth having plans prepared 2 story 50 x 65 ft. warehouse and 20 x 50 ft. coal storage plant, brick, plain foundation. $40,000. Private plans.

Ia., Muscatine—Voted $350,000 bonds electric light and power plant. C. F. Stebbins, clk. Noted Feb. 2.

Minn., Minneapolis—City Dye House Inc., 2637 Nicollet Ave., having plans prepared by P. E. Crosier, archt., 915 New York Life Bldg., 2 story, 130 x 132 ft., brick and concrete laundry, Nicollet Ave. and 29th St. $75,000. M. Eisenstadt, pres.

Mo., St. Charles—See "Waterworks."

Cal., Paso Robles—Paso Robles Almond Growers Assn. having plans prepared by D. R. Bailey, archt., 2216 25th St., Sacramento, for rein.-con. warehouse. $60,000.

Cal., San Francisco—Los Angeles Soap Co., 250 Front St., having plans prepared by W. H. Crim, Jr., archt., 425 Kearny St., 3 story, 100 x 160 ft., rein.-con. factory, 2nd and Brannan Sts. $150,000.

Ont., Sturgeon Falls—Northern Ontario Light & Power Co., Cobalt, plans to develop Sturgeon Falls on Mattagami River, 7,000 hp., providing McIntyre mines will sell lease. Cost between $350,000 and $600,000.

BIDS DESIRED

R. I., Westerly—March 10, by C. T. Main, archt., 201 Devonshire St., Boston, 5 story, 32 x 50 ft., brick mill, for Westerly Textile Co. $40,000.

Conn., East Hartford (Hartfort P. O.)—E. C. Walz, archt., 407 Trumbull St., Hartford, receiving bids 1 story, 80 x 100 ft. concrete, brick and steel garage and service station, Connecticut Blvd., for T. Shannon, Russell St., South Manchester. $40,000. Noted Feb. 9.

Pa., Chester—Scott Paper Co., Chester, taking bids for 2 story, 45 x 86 ft. rein.-con., brick and steel factory, plain foundation. $50,000. Private plans.

Pa., Phila.—Ballinger Co., archts., 12th and Chestnut Sts., receiving bids 2 story, 83 x 159 ft. and 1 story, 92 x 171 ft. factory, Rising Sun Lane and Knoor St., for Andross Worsted Co., Inc. $200,000.

Pa., Phila.—Jacob Bros., 1212 North 52nd St., taking bids 2 story, 54 x 73 ft. brick and steel warehouse, plain foundation, 54th and Pennsgrove Sts. $75,000. J. S. C. Fernald, 5533 Wyalusing Ave., archt.

N. C., Enfield—March 15, by A. W. Andleton, mayor, and Town Comrs., electric light plant, waterworks and sewerage systems. W. C. Olsen, Kinston, consult. engr.; adv. this issue. Noted Jan. 26.

Ill., Chicago—See "Buildings."

Ill., Chicago—W. W. Ahlschlager, archt., 65 East Huron St., receiving bids 1 story, 150 x 214 ft. garage, rein.-con., brick and steel, Clark St. and Rogers Ave., for H. and W. Thompson, 4925 North Washtenaw Ave. $50,000.

Ill., Chicago—A. Mikell, 1311 Washburn Ave., receiving bids 2 story, 72 x 107 ft. garage, rein.-con., brick and steel, on Taylor and Garibaldi St. $50,000. H. Dalsey, 2321 West North Ave., archt.

Wis., Milwaukee—March 10, by Sewerage Comn., City Hall, structural steel only, for 90 x 225 ft. main power house and 68 x 166 ft. boiler plant, on Jones Island. T. C. Hatton, City Hall, engr.

BIDS RECEIVED

D. C., Wash.—Salvation Army, 521 13th St., N. W., garage, baling and repair shop, at Industrial Home, from G. A. Fuller, Munsey Bldg., $200,000.

CONTRACTS AWARDED

Mass., Attleboro—R. Wolfenden & Sons will build 1 story, 60 x 230 ft. dyehouse, brick and steel, plain foundation, at plant, by day labor. $60,000. Private plans.

Mass., Canton—G. Grow Tire Co., 321 Columbus Ave., Boston, 1 story, 41 x 102 ft., rein.-con. addition to plant, here, to Coleman Bros., Inc., Charlestown, Mass. $45,000.

Mass., Cambridge—Natl. Bottling Co., 28 School St., Boston, 1 story, 75 x 135 ft., concrete, brick and steel garage and service station, plain foundation, Washington St., to F. J. Van Etten Co., 80 Boylston St., Boston. $45,000.

Mass., Graniteville—Abbot Worsted Co., Westford, 3 story, 90 x 215 ft., mill construction addition, here, to Casper-Ranger Constr. Co., 20 Bond St., Holyoke. $150,000.

Mass., Newtonville—Security Mills, Inc., West Newton, will build 1 story, 60 x 150 ft., brick and steel addition, plain foundation, Monroe St., by day labor. $50,000.

Mass., Peabody—Danvers Bleachery Co., 2 story, 60 x 250 ft., brick and steel addition, to E. A. Abbott Co., 3 Park St., Boston. $150,000.

R. I., Providence—Crompton & Knowles Loom Wks., Harris Ave., 1 story, 30 x 105 ft., brick and steel addition, plain foundation, to Bowerman Bros., 230 Ind. Trust Bldg.

Conn., New Haven—Seamless Rubber Co., Inc., Hallock St., 1 story, 140 x 160 ft., rein.-con., brick and steel addition to plant, to Sullivan & McKeown, 8430 Dixwell Ave. $100,000. Noted Jan. 12.

Conn., Wallingford—H. L. Judd & Co., 42 South Cherry St., 5 story, 80 x 100 ft., rein.-con. and brick addition to factory, plain foundation, to J. W. Ferguson, Inc., 253 Bway., New York. $125,000. Noted Jan. 19.

Conn., Waterbury—G. W. Russell, 263 Bank St., 1 story, 60 x 135 ft., brick and steel garage and salesroom, plain foundation, Cottage Pl., to Clark Constr. Co., 168 Grand St. $40,000. Noted Oct. 27.

N. J., Pleasantville—Taylor Packing Co., 2½ story, 100 x 145 ft. packing plant, concrete, brick and steel, to Turner Constr. Co., 1713 Samson St., Phila. $75,000.

N. J., West Hoboken—J. Keavy, 357 Palisade Ave., will build 1 story, 75 x 100 ft., brick, steel and stone garage, plain foundation, Malone St., by day labor. $42,000. McDermott & Binda, 532 Bergenline Ave., archts. and engrs. Noted Dec. 22.

Pa., Chester—Irving Worsted Co., 1 story, 60 x 100 ft. and 1 story, 52 x 64 ft. brick factory, plain foundation, to Chester Constr. & Contg. Co., Chester. $50,000.

Pa., Phila.—Gotham Silk Hosiery Co., 2nd and Norris Sts., 10 story, 56 x 122 ft. and 20 x 20 ft. rein.-con., brick and steel factory, plain foundation, 2nd and Norris Sts., to W. Steele & Sons, 16th and Arch Sts. $500,000.

Pa., Phila.—Hexfer & Kahn, Morris Bldg., 1 story, 40 x 237 ft. service and sales building, brick and steel, plain foundation, 5931-5935 Broad St., to H. Gill, Jr., 2514 Germantown Ave. $90,000.

Pa., Phila.—N. Hulme, archt., 1524 Chestnut St., 3 story, 40 x 50 ft. and 3 story, 35 x 120 ft. brick and steel garage, plain foundation, Girard Ave. and Watts St., to J. W. Emery Co., 34 South 16th St., for A. W. Pusey, West End Trust Bldg. $60,000. Noted Feb. 23.

Pa., Phila.—J. C. Kuhn, Morris Bldg., 2 story, 125 x 310 ft. rein.-con. and brick warehouse, plain foundation, Glenwood Ave. and Oxford St., to Nelson-Pedley Constr. Co., 1615 Spruce St. $150,000.

Pa., Phila.—Lester Piano Co., Lester, 3 story, 85 x 144 ft. brick and steel factory, plain foundation, to G. S. Roe, 6949 Saybrook Ave.

Pa., Phila.—H. T. Paiste & Co., 32nd and Cherry Sts., 4 story, 104 x 108 ft. rein.-con., and brick factory, plain foundation, 32nd and Cherry Sts., to Turner Constr. Co., 1713 Sansom St. Cost over $100,000.

Pa., Phila.—Sheplan, Sabol & Palmer, 15th and Wallace Sts., 4 story, 127 x 153 x 154 ft. rein.-con., brick and steel factory, plain foundation, 43rd and Lancaster Aves., to Wark & Co., 231 South Broad St. $95,000.

Pa., Phila.—F. C. Snedaker & Co., 9th and Tioga Sts., will build 3 story, 60 x 60 ft. brick and steel warehouse, plain foundation, 9th and Tioga Sts., by day labor. $80,000.

Md., Baltimore—Continental Garage & Service Corp., 111 North Charles St., 5 story, brick garage and service station, Monument and Howard Sts., to Consolidated Eng. Co., Calvert Bldg., $275,000. Noted Dec. 15.

N. C., Highland (Hickory, P. O.)—Highland Cordage Co. will build 1 story, 80 x 440 ft. yarn mill, concrete and brick, by day labor. $50,000. C. H. Geitner, pres., in charge.

O., Cleveland—J. Cohen, 2376 East 49th St., 1 story, 31 x 81 ft., brick and timber garage, plain foundation, 2627 East 31st St., to M. Wakser, 2424 East 63rd St. $40,000.

O., Cleveland—J. McKay, 1285 East Blvd., 1 and 2 story, 30 x 90 ft. printing plant, brick and steel, plain foundation, 1449 Lakeside Ave., to W. Page, 2061 Grayton Rd. $40,000.

O., Dayton—Holland Bread Co., 443 West 3rd St., 2 story, 170 x 250 ft. baking plant, rein.-con., steel and brick, South Ludlow St., to F. H. Smith, Winters Bank Bldg. $200,000.

Mich., Detroit—Dept. Motor Transportation, City Hall, will build 1 story, rein.-con., brick and steel garage and service station, plain foundation, Jefferson Ave., by day labor. $560,000. Eng. Dept. of Street Ry. Comn., Marquette Bldg., engrs.

Wis., Ellis Junction (Crivitz P. O.)—Wisconsin Pub. Serv. Co., 425 East Water St., Milwaukee, general contract one story, brick and steel hydroelectric plant, plain foundation, along Pestigo River, to J. R. McDonald, Black River Falls. Noted Feb. 9.

Wis., Milwaukee—Mi Lola Cigar Co., 139 Sycamore St., 1 story, 60 x 300 ft. cigar factory and 2 story, 42 x 60 ft. office, brick and concrete, plain foundation, Green Bay Rd., to R. Reisinger & Co., 464 Oakland Ave.

Wis., Racine—Racine Constr. Co., 468 College Ave., will build 1 story, 100 x 100 ft., brick and concrete warehouse, plain foundation, Frederick St., by day labor. $41,000. Private plans.

Minn., Hibbing—Water & Light Comn., building and equipping addition to power plant, to Natl. Electric Constr. Co., 174 East 6th St., St. Paul. $134,680.

N. D., Fargo—Stone, Ordean & Wells, 201 South 5th Ave., Duluth, Minn., general contract, 2 story, 72 x 175 ft. rein.-con., brick and tile warehouse, to Meineke & Johnson, Fargo, $40,000. Noted Dec. 22.

Mo., Jefferson City—Standard Crate & Filler Co., 2 story, 100 x 220 ft., rein.-con., brick, steel and stone factory, to Fruin-Colon Contg. Co., Laclede Bldg., St. Louis. Noted Feb. 16.

Mo., St. Louis—Scruggs, Vandervoort & Barney Dry Goods Co., 10th and Olive Sts., 4 story, 130 x 160 ft., brick garage, St. Charles St., to J. Hill Constr. Co., Syndicate Trust Bldg. Noted Jan. 26.

Cal., Fresno—W. P. Fuller & Co., Beale and Mission Sts., San Francisco, 2 story paint jobbing plant and distributing warehouse, rein.-con., Los Angeles and M Sts., here, to M. C. Vaughn, 357 12th Sts., Oakland. $100,000. Noted Dec. 29.

Buildings

PROPOSED WORK

N. H., Keene—Hospital—Elliott Hospital Comn. plans 3 story, rein.-con. and brick, $225,000. Kendall, Taylor & Co., 93 Federal St., Boston, archts. Noted Nov. 17.

Mass., Boston—Office—Lincoln Realty Corp., c/o G. N. Jacobs, archt., 8 Hamilton Pl., plans 10 story, brick and steel, Lincoln St. $350,000.

Mass., Boston—Restaurant—Thompsons Spa, 219 Washington St., having plans prepared by S. D. Keeley, archt., 46 Cornhill, 11 story, 58 x 136 ft., brick and steel, Court Sq. $375,000.

Mass., Chicopee—Church—G. P. Dion, archt., 30 Center St., opens bids about March 15, 1 story, brick, steel and stone, plain foundation, Springfield and Chapman Sts., for Church of Assumption, 104 Springfield St. $200,000. Noted Jan. 19.

Mass., Malden—Business—G. N. Meseroe, archt., 200 Devonshire St., Boston, soon lets contract 6 story, 120 x 120 ft., brick and steel, plain foundation, Malden Sq., for J. A. Dowling, Brookline. $250,000.

Mass., Palmer—High School—Building Com. having plans prepared by E. C. and G. C. Gardner, archts., 33 Lyman St., Springfield, 2½ story, brick and steel, Main St. $168,000.

Conn., Bristol—Club—H. A. Hayden, archt., 175 Main St., soon lets contract 3 story, 91 x 100 ft., brick and steel, plain foundation, Church St., for Bristol Boys Club, Main St. $150,000. Noted Mar. 3.

N. Y., Brooklyn—Exchange—New York Telephone Co., 15 Dey St., New York, having plans prepared by McKenzie, Voorhies & Gmelin, archts. and engrs., 1123 Bway., New York, 8 story, brick, steel and stone addition, plain foundation, Willoughby Ave., here. $1,000,000.

N. Y., Malone—School—Bd. Educ. opens bids about April 15, brick, steel and stone, plain foundation. $220,000. Tooker & Marsh, 101 Park Ave., New York, archts. and engrs. Noted Feb. 26.

N. Y., New York—Apartment—Five Eighty-eight West End Ave. corp., c/o Schwartz & Gross, archts. and engrs., 347 5th Ave., having plans prepared brick, steel and stone, plain foundation, 588 West End Ave. $500,000.

N. Y., New York—Apartment—F. Johnson, 30 East 42nd St., having plans pre-

Buildings (Continued)

pared by C. Kreymborg, archt. and engr., 2534 Marion Ave., 6 story, brick, steel and stone, plain foundation, Stebbins Ave. near Dawson St. $250,000.

N. Y., New York—Apartment—H. H. Uris, c/o A. C. Bossom, archt. and engr., 680 5th Ave., soon takes bids brick, steel and stone, plain foundation, 108th St. and Riverside Dr. $550,000.

N. Y., New York—Apartment—M. Rosenberg, 114 West 44th St., having plans prepared by A. Dehli, archt. and engr., 154 Nassau St., 5 story, brick, steel and stone, plain foundation, 230th St. and Godwin Terrace. $150,000.

N. Y., New York—Bank—North Side Savings Bank, 3230 3rd Ave., having preliminary plans prepared by Holmes & Winslow, archts. and engrs., 134 East 44th St., altering and building 2 story, brick, steel and stone addition, plain foundation. $150,000.

N. Y., New York—Hotel—Estate of A. S. Rosenbaum, c/o Bottomley, Sugarman & Hess, archts. and engrs., 112 East 55th St., having plans prepared 12 story, brick, steel and stone, plain foundation, University Pl. and 10th St. $750,000.

N. Y., Syracuse—Schools—Plans to vote on $965,000 bonds for various improvements, incl. $707,000 for new schools or reconstruction present buildings.

N. J., Atlantic City—Lodge—B.P.O.E. plans new home, 24 South Michigan Ave. $350,000. H. Bacharach, 108 St. Charles St., chn. com.

Pa., Danville—Temple—W. H. Lee, archt., 32 South 17th St., Phila., takes bids early in spring, 3 story, 55 x 85 ft. brick and steel, plain foundation, for Masonic Hall Assn., c/o W. C. Pursell, Danville. $200,000.

Pa., Narberth—Apartment—E. K. Taylor, archt., 1627 Sansom St., Phila., soon takes bids 3 story, 33 x 123 ft. with two 22 x 28 ft. wings, brick, steel and stone, plain foundation, here, for S. Atherholdt, Narberth. $150,000.

Pa., New Castle—Temple—Scottish Rite Bodies, F. and A. M., plan brick temple, Highland and Lincoln Aves. $1,000,000. Architect not selected.

Pa., Phila.—Church—Second Church of Christ Scientists, 5443 Greene St., had revised plans prepared by Day & Klauder, archts., Commonwealth Bldg., 2 story, 68 x 76 ft. and 76 x 128 ft. brick, steel and stone, plain foundation, Greene and Coulter Sts. $200,000. Former bids rejected. Noted Dec. 22.

Pa., Phila.—High School—Bd. Educ. takes bids March 10, 3 story, 198 x 210 ft. rein.-con., brick and steel, plain foundation, 24th and Snyder Sts. $800,000. Private plans.

Pa., Phila.—Hotel—J. Thommen, 15th and Market Sts., plans 10 story, 69 x 176 ft., 1714 Market St. $1,000,000. Architect not selected.

Pa., Phila.—Hotel and Store—S. R. Bleckson, 667 North Broad St., having plans prepared by L. B. Rothchild, archt., 1211 Sansom St., and soon receives bids 14 story, 100 x 156 ft. rein.-con. brick and steel, plain foundation, Juniper and Locust Sts. $1,500,000.

Pa., Phila.—Office—Insurance Co. of North America, 3rd and Walnut Sts., plans 10 story, 147 x 153 ft. 16th and Arch Sts. $1,500,000. Architect not selected.

Pa., Phila.—Office—O. W. Ketchum, 24 South 7th St., plans 9 story, 62 x 80 ft. rein.-con., brick and steel, plain foundation, 121-125 18th St. $500,000. Architect not selected.

Pa., Phila.—Schools—Bd. Educ. having plans prepared and takes bids early in March for 25 room, 54th and Warrington Aves., $300,000; 3 story octagon shape, Ridge Ave. and Fountain St., $800,000; 16 room, 65th and Landsdowne Aves., $400,000; 14 room, 3rd and Duncannon Sts., $300,000, all rein.-con., brick and steel, plain foundations. Private plans.

Pa., Wynewood — School — Montgomery School, c/o P. H. Clark, Wynewood, soon takes bids 3 story, rein.-con., brick, steel and stone, plain foundation. $1,000,000. A. H. Brockie, 1713 Sansom St., Phila., archt.

W. Va., Princeton—High School—Bd. Educ. having plans prepared by Wysong & Jones, archts., 408 Odd Fellows Bldg., Charleston, and opens bids about April 1, 2 story, 124 x 180 ft., brick, stone and concrete, Mercer St. $160,000. Noted Sept. 22.

N. C., Raleigh—Hotel—Capitol Constr. Co., Inc., c/o J. Daniels, 801 Newbern Ave., plans 240 room hotel. $1,000,000. Architect not selected.

SHAFT CAISSONS AND TUNNELS—NEW YORK, N. Y.

Bids were received by New York State Bridge & Tunnel Comn. and New Jersey Interstate Bridge & Tunnel Comn., Room 617, Hall of Records, New York, for constructing 2 c.i. tunnels between Canal St. and Spring St. shafts and point 600 ft. west of New York pierhead line and sinking shaft caisson near New York pierhead line, Contr. 3; also 2 c.i. tunnels between point 1,000 ft. west of river bulkhead near line of 12th St., Jersey City, and point about 600 ft. west of New York pierhead line, and sinking 4 caissons—2 inside the bulkhead line and 2 near the pierhead line, Contr. 4, from (A) Booth & Flinn, Ltd., 17 Battery Pl.; (B) P. McGovern & Co., 50 East 42nd St.; (C) Keystone State Constr. Co. & Holbrook, Cabot & Rollins Corp., 52 Vanderbilt Ave. The unit bids for Schedule B were as follows:

Contract No. 3.

	A	B	C
450 cu.yd. earth excavation for pipes, etc., above and below M.H.W.	$7.00	$15.00	$7.50
9,200 cu.yd. shaft excavation in earth below M.H.W.	25.00	32.75	14.00
5,200 cu.yd. shaft excavation in rock	45.00	51.50	40.00
61,000 cu.yd. tunnel excavation wholly in earth	25.00	17.50	30.00
44,800 cu.yd. tunnel excavation partly in earth, partly in rock	42.00	34.20	52.00
650 cu.yd. tunnel excavation wholly in rock	70.00	32.00	52.00
50 cu.yd. concrete not otherwise provided for	15.00	10.00	20.00
5,650 cu.yd. shaft concrete not in compressed air (except item 27c)	15.00	40.00	18.80
620 cu.yd. concrete protection outside river shaft	20.00	35.00	25.00
20,500 cu.yd. tunnel concrete not in compressed air	21.00	14.50	19.00
650 cu.yd. shaft concrete in compressed air	25.00	40.00	25.00
820 cu.yd. tunnel concrete in compressed air	30.00	36.25	25.00
1,000 bbl. motor batches used with concreting (cement)	6.00	3.40	4.50
35 cu.yd. dry stone packing	2.00	3.00	5.00
130 cu.yd. granite facing on river shaft	90.00	150.00	110.00
7,960 lin.ft. granite curbing in tunnels	3.00	3.65	2.25
100 bbl. grout 1 to 1 portland cement not in compressed air	7.50	4.10	5.50
100 bbl. grout 1 to 0 portland cement not in compressed air	7.50	3.55	4.50
300 bbl. grout 1 to 1 portland cement in compressed air	9.50	6.55	5.75
100 bbl. grout 1 to 0 portland cement in compressed air	9.50	5.50	4.00
15,000 bbl. grout 1 to 1 mixed cement—for portland cement used	3.50	6.55	6.00
35,000 bbl. grout 1 to 1 mixed cement—for natural cement used	2.20	5.35	6.00
100 bbl. grout 1 to 0 mixed cement—for portland cement used	4.00	5.50	4.00
250 bbl. grout 1 to 0 mixed cement—for natural cement used	2.20	4.30	3.75
8,570 sq.ft. platform around river shaft	.10	1.20	1.00
10 sq.yd. waterproofing 1 ply not in comp. air without brick	1.35	.75	1.00
10 sq.yd. waterproofing 2 ply not in comp. air without brick	1.90	1.30	1.60
800 sq.yd. waterproofing 3 ply not in comp. air without brick	3.10	1.80	2.00
10 sq.yd. waterproofing 4 ply not in comp. air without brick	4.40	2.35	2.40
10 sq.yd. waterproofing 6 ply not in comp. air without brick	6.00	3.40	3.00
300 sq.yd. waterproofing 4 ply in comp. air without brick	7.00	4.40	12.00
10 sq.yd. waterproofing 6 ply in comp. air without brick	11.00	6.30	15.00
400 sq.yd. waterproofing 4 ply in comp. air incl. brick layer	16.50	6.95	20.00
10 sq.yd. waterproofing 6 ply in comp. air incl. brick layer	20.00	8.95	25.00
2,200 sq.yd. waterproofing coating outside river shaft steel	1.50	.20	1.00
30 ton built-up steelwork not otherwise provided for	250.00	123.00	100.00
1,800 ton steelwork river shaft	150.00	225.00	250.00
54 ton steel beams and shapes except items 71 and 75 (a)	100.00	85.00	85.00
67 ton reinforcing rods	100.00	65.00	120.00
62 ton wire mesh	120.00	110.00	110.00
775 ton special rolled section for tunnel roadway	70.00	75.00	65.00
63 ton steel connecting rings between tunnels and shafts	175.00	225.00	200.00
230 ton steelwork in permanent tie-road anchorages	125.00	102.00	150.00
1,335 ton tunnel bolts and nuts	150.00	165.00	200.00
57 ton permanent tie-rods complete except anchorages	300.00	290.00	314.00
68 ton copper steel plates, bolts, nuts and washers	90.00	89.00	100.00
1,000 lb. ladders and miscellaneous w.i. fixtures except pipes and pipe fittings	.15	.11	.10
100 lin.ft. w.i. or steel pipe, 1-in.	.40	.30	.12
200 lin.ft. w.i. or steel pipe 1¼-in.	.60	.40	.18
100 lin.ft. w.i. or steel pipe 2-in.	.90	.50	.25
100 lin.ft. w.i. or steel pipe 2½-in.	1.10	.70	.36
100 lin.ft. w.i. or steel pipe 3-in.	1.35	.90	.50
200 lin.ft. w.i. or steel pipe 4-in.	1.70	1.20	.75
500 lin.ft. galvanized iron electric conduits ¾-in.	.15	.30	.14
7,500 lin.ft. galvanized iron electric conduits 1-in.	.30	.45	.18
1,300 lin.ft. galvanized iron electric conduits 1¼-in.	.33	.65	.20
700 lin.ft. galvanized iron electric conduits 1½-in.	.36	.85	.25
100 lin.ft. galvanized iron electric conduits 3-in.	.75	1.50	.65
100 each galvanized iron outlet boxes	3.00	1.25	.16
50 galvanized iron pull boxes 4 x 4 x 3	2.20	1.25	.30
500 galvanized iron pull boxes 6 x 6 x 4	4.90	2.25	.35
625 galvanized iron sheet metal air flues	25.00	20.50	16.00
17,800 lb. galvanized iron curb guards, ladders, hand bars and misc.	.10	.09	.10
100 ton cast steel tunnel lining except pile segments	90.00	70.00	88.00
10 ton cast steel pile segments	90.00	95.50	100.00
25 ton cast steel posts, lintels, bases in sump and pump chamber	150.00	151.00	125.00
33,200 ton cast iron tunnel lining	53.70	60.00	64.00
20 ton c.i. hub and spigot pipe (straight)	70.00	50.00	62.50
3 ton c.i. hub and spigot pipe special castings	115.00	110.00	82.50
12 ton c.i. manhole and misc. castings not otherwise provided for	115.00	130.00	100.00
4,000 lin.ft. c.i. tunnel service pipe 6-in.	1.40	1.50	1.80
50 lin.ft. c.i. tunnel service pipe 8-in.	1.50	2.10	2.00
1,720 lin.ft. c.i. tunnel service pipe 10-in.	2.50	3.00	3.00
10 lin.ft. c.i. tunnel service pipe 12-in.	3.50	3.70	4.00
4,450 lb. non-corrosive metal	.75	.35	1.00
1,000 lb. bronze bolts wedges and hinges	.75	.35	1.00
31,000 duct ft. tunnel ducts single way	.20	.22	.20
100 duct.ft. tunnel ducts 2 way	.20	.20	.18
11,600 duct.ft. tunnel ducts, 3 way	.20	.20	.18
15,500 duct.ft. tunnel ducts 4 way	.20	.18	.17
92,600 duct.ft. tunnel ducts 6 way	.20	.18	.16
1,370 sq.ft. asbestos lumber ¼-in.	.50	.20	.40
200 lin.ft. changing c.i. water pipe 6-in.	1.00	1.20	.62
200 lin.ft. changing c.i. water pipe 12-in.	1.35	2.50	1.50
200 lin.ft. changing gas pipe 4-in.	.65	.90	.50
200 lin.ft. changing gas pipe 6-in.	1.00	1.20	.60
200 lin.ft. changing gas pipe 10-in.	1.25	2.00	1.00
200 lin.ft. changing gas pipe 12-in.	1.35	2.50	1.25
100 lin.ft. furnishing and changing w.i. or steel electric conduits 2½-in.	5.00	1.20	3.00
1,700 lin.ft. furnishing and changing w.i. or steel electric conduits 3-in.	6.00	1.40	3.00
200 lin.ft. furnishing and changing wi.. or steel electric conduits 3½-in.	7.00	1.60	3.00
Engineers Field Office services (lump sum)	4,000.00	7,600.00	7,500.00
2 placing roof girders of land shafts	200.00	2,000.00	3,000.00
800 lin.ft. building tight board fence	2.50	2.00	1.50
700 sq.yd. restoration of roadway granite block pavement	4.00	3.25	3.50
220 sq.yd. restoration of sidewalks between curb and building lines	1.80	2.70	2.70
Extended total	$7,263,623	$7,199,623	$8,568,296

Contract No. 4.

	A	B	C
1,800 cu.yd. earth excavation for pipes etc. above and below m.h.w.	7.00	$15.00	$7.5
350 cu.yd. shaft excavation in earth above m.h.w.	7.00	31.50	7.5
25,300 cu.yd. shaft excavation in earth below m.h.w.	29.00	32.75	25.0

10 cu.yd. shaft excavation in rock	10.00	51.50	30.00
246,000 cu.yd. tunnel excavation wholly in earth	15.00	17.50	13.00
9,500 cu.yd. tunnel excavation partly in earth, partly in rock	47.00	34.20	70.00
10 cu.yd. tunnel excavation wholly in rock	49.40	32.00	80.00
9,500 cu.yd. shaft concrete not in comp. air (except item 27c)	15.00	40.00	18.80
750 cu.yd. concrete protection outside river shaft	15.00	35.00	25.00
50,300 cu.yd. tunnel concrete not in compressed air	21.00	14.50	19.00
1,770 cu.yd. shaft concrete in compressed air	25.00	40.00	25.00
110 cu.yd. tunnel concrete in compressed air	30.00	36.25	25.00
2,000 bbl. mortar batches used with concreting (cement)	6.00	3.40	4.50
175 cu.yd. granite facing on river shaft	90.00	150.00	110.00
19 250 lin.ft. granite curbing in tunnels	3.00	3.65	2.25
100 bbl. grout 1 to 1 portland cement not in compressed air	7.50	4.10	5.50
100 bbl. grout 1 to 0 portland cement not in compressed air	7.50	3.55	4.50
200 bbl. grout 1 to 1 portland cement in compressed air	9.50	6.55	5.75
100 bbl. grout 1 to 0 portland cement in compressed air	9.50	5.50	4.00
10 000 bbl. grout 1 to 1 mixed cement-for Portland cement used	3.50	6.55	6.00
20,000 bbl. grout 1 to 1 mixed cement-for natural cement used	2.20	5.35	6.00
100 bbl. grout 1 to 0 mixed cement-for Portland cement used	4.00	5.50	4.00
250 bbl. grout 1 to 0 mixed cement-for Natural cement used	2.20	4.30	3.75
9,000 lin.ft. 20 in. reinforced concrete piles under river shaft	16.00	9.30	12.00
4,000 lin.ft. 24 in. reinforced concrete piles under river shaft	18.00	12.00	15.00
15,300 sq.yd. platform around river shaft	.10	1.20	1.00
11 m.ft. B.M. lumber bulkheads in land shaft	150.00	111.50	175.00
10 sq.yd. waterproofing 1 ply not in compressed air without brick	1.35	.75	1.00
10 sq.yd. waterproofing 2 ply not in compressed air without brick	1.90	1.30	1.60
100 sq.yd. waterproofing 3 ply not in compressed air without brick	3.10	1.80	2.00
550 sq.yd. waterproofing 4 ply not in compressed air without brick	4.40	2.35	2.40
10 sq.yd. waterproofing 6 ply not in compressed air without brick	6.00	3.40	3.00
880 sq.yd. waterproofing 4 ply in compressed air with brick layer	16.50	6.95	20.00
10 sq.yd. waterproofing 6 ply in compressed air with brick layer	20.00	8.95	25.00
3,430 sq.yd. waterproofing coating outside river shaft steel	1.50	.20	1.00
60 ton built up steelwork not otherwise provided for	250.00	123.00	100.00
2,660 ton steelwork land and river shafts	150.00	216.00	250.00
130 ton steel beams and shapes except items 71 and 75a	100.00	81.00	85.00
480 ton reinforcing rods	100.00	65.00	120.00
160 ton wire mesh	120.00	110.00	110.00
1,715 ton special rolled section for tunnel roadway	70.00	75.00	65.00
245 ton built up floor beams for tunnel roadway	100.00	73.00	66.00
83 ton steel connecting rings between tunnels and shafts	175.00	225.00	200.00
110 ton steelwork in permanent tie rod anchorages	125.00	102.00	150.00
3,280 ton tunnel bolts and nuts	150.00	165.00	200.00
275 ton permanent tie rods complete except anchorages	300.00	290.00	314.00
165 ton copper steel plates, bolts, nuts and washers	90.00	89.00	100.00
500 lb. ladders and miscellaneous w.i. fixtures except pipes and pipe fittings	.15	.11	.10
100 lin.ft. w.i. or steel pipe, 1 in.	.40	.30	.12
400 lin.ft. w.i. or steel pipe, 1¼ in.	.60	.40	.18
100 lin.ft. w.i. or steel pipe, 2 in.	.90	.50	.25
100 lin.ft. w.i. or steel pipe, 2½ in.	1.10	.70	.36
100 lin.ft. w.i. or steel pipe, 3 in.	1.35	.90	.50
400 lin.ft. w.i. or steel pipe, 4 in.	1.70	1.20	.75
1,200 lin.ft. galvanized iron electric conduits, ¾ in.	.15	.30	.14
18,200 lin.ft. galvanized iron electric conduits, 1 in.	.30	.45	.18
3,150 lin.ft. galvanized iron electric conduits, 1¼ in.	.33	.65	.20
1,550 lin.ft. galvanized iron electric conduits, 1½ in.	.36	.85	.25
200 lin.ft. galvanized iron electric conduit, 3 in.	.75	1.50	.65
200 galvanized iron outlet boxes	3.00	1.25	.16
120 galvanized iron pull boxes, 4x4x3	2.20	1.25	.30
1,200 galvanized iron pull boxes, 6x6x4	4.90	2.25	.35
1,430 galvanized iron sheet metal air flues	25.00	20.50	16.00
42,500 lb. galvanized iron curb guards, ladders, hand bars and misc.	.10	.09	.10
8,950 ton cast steel, tunnel lining except pile segments	85.00	70.00	88.00
360 ton cast steel pile segments	85.00	95.00	100.00
72,300 ton cast iron tunnel lining	47.50	60.00	64.00
90 ton c.i. hub and spigot pipe (straight)	70.00	50.00	62.50
4 ton c.i. hub and spigot pipe (special castings)	115.00	110.00	82.50
23 ton c.i. manhole and misc. castings not otherwise provided for	115.00	130.00	100.00
9,700 lin.ft. c.i. tunnel service pipe, 6 in.	1.40	1.50	1.80
50 lin.ft. c.i. tunnel service pipe, 8 in.	1.50	2.10	2.00
50 lin.ft. c.i. tunnel service pipe, 10 in.	2.50	3.00	3.00
10 lin.ft. c.i. tunnel service pipe, 12 in.	3.50	3.70	4.00
10,800 lb. non-corrosive metal	.75	.35	1.00
2,000 lb. bronze bolts, wedges and hinges	.75	.35	1.00
75,000 duct.ft. tunnel ducts, single way	.20	.22	.20
100 duct.ft. tunnel ducts, 2 way	.20	.20	.18
28,100 duct.ft. tunnel ducts, 3 way	.20	.20	.18
37,500 duct.ft. tunnel ducts, 4 way	.20	.18	.17
225,000 duct.ft. tunnel ducts, 6 way	.20	.18	.16
3,100 sq.ft. asbestos lumber, ¼ in.	.50	.20	.40
400 lin.ft. changing c.i. water pipe, 6 in.	1.00	1.20	.62
300 lin.ft. changing c.i. water pipe, 8 in.	1.10	1.75	1.00
300 lin.ft. changing c.i. water pipe, 10 in.	1.25	2.00	1.25
50 lin.ft. changing c.i. water pipe, 12 in.	1.35	2.50	1.50
2,100 lin.ft. laying c.i. water pipe, 6 in.	.65	1.00	.50
50 lin.ft. laying c.i. water pipe, 8 in.	.85	1.25	.60
50 lin.ft. laying c.i. water pipe, 10 in.	1.05	1.50	.70
2,100 lin.ft. laying c.i. gas pipe, 4 in.	.45	.90	.50
1 building equipping engineers field office (lump sum)	25,000.00	20,000.00	27,500.00
2,650 lin.ft. building tight board fence	2.50	2.00	1.50
Extended totals	$12,132,101	$13,878,961	$13,623,340

*Contract 3 covers the construction of twin tubes 29½ ft. in diameter on the New York side of the river. Contract 4 includes the tunnel work from the Jersey side, in addition to two land and two river shafts. Bids made under Schedule A are without dependence upon the award of any other contract, while under Schedule B the same contractor is awarded both contracts, covering the entire subaqueous work.

Buildings (Continued)

Ala., Birmingham—Market House—Takes bids about April 1, market house. $300,000 bonds voted. Architect not selected.

Tenn., Memphis—Jail—Shelby Co. having plans prepared by Jones & Furbringer, archts., Porter Bldg., concrete and stone, 3rd and Washington Sts. $500,000. J. A. Reichman, chn. jail com.

Mich., Detroit—Apartment—C. H. Crane, archt., Huron Bldg., opens bids about March 1, 4 story, brick and wood, plain foundation, Jefferson Ave., for M. M. Robinson, Real Estate Exch. Bldg. $200,000.

Wis., Stevens Point — Church — St. Stephens Catholic Congregation had plans prepared by Childs & Smith, archts., 64 East Van Buren St., Chicago, and soon takes bids for church, stone walls. $150,000.

Minn., Duluth — Temple — Scottish Rite Cathedral having plans prepared by G. D. Mason & Co., archts., 508 Griswold St., Detroit, 4 story, 125 x 175 ft., rein.-con., brick, steel and stone, plain foundation. $500,000.

Minn., Kinney—School—Bd. Educ., Buhl, plans 3 story, rein.-con., brick, tile and stone, here. $200,000. F. Anderson, clk. Architect not announced.

Minn., Minneapolis—Office—Northwestern Natl. Life Insurance Co., 11th St. and Nicolett Ave., plans 3 or 4 story, rein.-con., brick, tile and stone, on 247 x 300 ft. site, 15th and Oak Grove Sts. J. T. Baxter, pres.

Minn., Minneapolis—Store—Lafayette Investment Co., c/o W. J. Hopwood, 551 Chamber of Commerce Bldg., having plans prepared by Croft & Boerner, archts., 1006 Marquette Ave., 2 story, 160 x 170 ft., concrete and brick, Nicollet Ave. and 11th St. $150,000.

Kan., Jewell City—High School—Bd. Educ., c/o L. M. Jorgenson, clk., having plans prepared by Mann & Gerow, archts., Wiley Bldg., Hutchinson, 2 story, 82 x 135 ft., brick, stone, rein.-con. and steel. $150,000.

Neb., Columbus—Hospital—Roman Catholic Church having revised plans prepared by C. Wurdeman Co., archts., Columbus, 4 story, 45 x 145 ft., fireproof construction. $300,000.

Neb., Holderedge — High School — Bd. Educ. having plans prepared by Davis & Wilson, archts., 515 Security Mutual Bldg., Lincoln, for high school. $200,000.

Neb., Kearney—Auditorium—Voted $175,000 bonds for auditorium. V. B. Wheelock, clk. Architect not selected.

Neb.—Scotts Bluff — High School — Bd. Educ. having plans prepared by P. A. Bradley & Co., archts., Scotts Bluff and Hastings, for 1st unit, junior and senior high school. $300,000. Total $500,000.

Mo., Excelsior Springs—Sanitarium—A. S. McCleary & Co., 10th and Paseo Sts., Kansas City, plans sanitarium, here. $450,000. Architect and engineer not selected.

Mo., Independence — Store—Johnson & Sons having plans prepared 3 story, 82 x 125 ft., rein.-con., brick, and terra cotta. $160,000. Private plans.

Mo., St. Louis—High School—J. J. Glennon, bishop of Roman Catholic Diocesis, having plans prepared by H. P. Hess, archt., 4811 Cote Brilliante Ave., 135 x 260 ft., Cote Brilliante Ave. and Kings Highway. $250,000.

Mo., St. Louis—School—Nativity Parish, 5811 Harney St., having plans prepared by T. F. Imbs, archt., 2442 North Grand Ave., 3 story, 60 x 100 ft., rein.-con., brick, steel and stone, Harney and Partridge Sts. $150,000.

Tex., Sulphur Springs—High School—School Bd. sold $150,000 bonds high school. E. L. Ashcroft, pres.

Cal., Fresno—Store and Office—B. Rogers, Las Palmas Ave. and J. Patterson, Wolters Colony, plan 8 story, fireproof construction, on 150 x 175 ft. site on Tulare and J Sts. $600,000.

Cal., Los Angeles—Store—C. F. Burke, c/o Milwaukee Building Co., archts., 315 Wright and Callender Bldg., having plans prepared, 7 story, 50 x 150 ft., rein.-con., brick and terra cotta, Belroy St. near 9th St.

Cal., Oakland—Office, Theatre and Store—Bway. Building Co., had plans prepared by M. I. Diggs, archt., Easton Bldg., San Francisco, and Oakland. Weeks & Day, archts., Phelan Bldg., San Francisco, 3 story, rein.-con., Bway. near 17th St. $525,000.

Cal., San Francisco—Apartments—A. F. Rousseau, 110 Sutter St., plans 7 story, brick and steel, Geary and Leavenworth Sts. $300,000. Architect not selected.

Cal., San Francisco—Apartment—M. J. Savage, Flatiron Bldg., having plans prepared by C. E. Gottschalk, archt., Phelan Bldg., 10 story, N. W. Taylor and O'Farrell Sts.

Cal., San Francisco—Church and School—Roman Catholic Archbishop had plans prepared by C. Fantoni, archt., 550 Montgomery St., 3 story, rein.-con. and steel. Filbert St. east of Powell St. Will soon let contract for steel work.

Cal., Sacramento—Market—H. Kleinsorge, California Frt. Bldg., and S. Downey, Capital Natl. Bank Bldg., having plans prepared by J. C. Petersen, archt., Peoples Bank Bldg., 1 story rein.-con., on 160 x 220 ft. site on J and 11th Sts.

Cal., Taft—Gymnasium—Taft Union High School Dist. having preliminary plans prepared by O. L. Clark, archt., Brower Bldg., Bakersfield, for gymnasium in connection with proposed high school additions. $190,000. $380,000 bonds voted for entire project. Noted Jan. 26.

Ont., London—University—Western University takes bids early in April, two buildings, one 90 x 300 ft. and other 80 x 200 ft., brick, steel and stone, North London. $1,000,000. Prices wanted on all materials. J. M. Moore, 489 Richmond St., archt. Noted Dec. 15.

BIDS DESIRED

Mass., Worcester—High School—March 6, by Bd. Educ., 2 story, 130 x 164 ft., steel and stucco, Elm St. $500,000. Andrews, Rantoul & Jones, 50 Congress St., Boston, archts.

N. Y., Brooklyn—School—March 6, by Bd. Educ., 500 Park Ave., New York, P. S. 67, 5 story, St. Edwards St. and Auburn Pl., here. C. B. J. Snyder, Municipal Bldg., New York, archt. and engr. Noted Feb. 9.

Buildings (Continued)

N. Y., Hudson—Industrial—March 10, by A. W. Allen, pres. Bd. Mgrs. New York State Training Schools for Girls, reconstructing industrial building. L. F. Pilcher, Albany, state archt.; adv. this issue.

N. Y., Lynbrook—Theatre and Store—Lynbrook Theatre Corp., c/o H. G. Wiseman, archt. and engr., 25 West 43rd St., New York, brick, steel and stone, plain foundation, here. $150,000. Work will be done by separate contracts under supervision of architect.

N. J. Riverton—Apartment and Store—Williams & Wright taking bids 3 story, 75 x 112 ft., slow burning construction, plain foundation. $150,000. J. F. Street, 129 South 5th St., Phila., archt.

Pa., Pittsburgh—Church and Parsonage—John Wesley African Methodist Episcopal Church and Estep and Estep, archts, Century Bldg., will build 1 story 60 x 120 ft. church and 2 story, 25 x 40 ft. parsonage, Centre and Francis Sts. $250,000. Work will be done by separate contract.

Va., Norfolk—Bank and Office—March 9, by Peebles & Ferguson, archts., Law Bldg., 12 story, 25 x 120 ft. brick, stone and steel annex, wood pile foundation, for Natl. Bank of Commerce, Main St. $500,000.

W. Va., Morgantown—Law School—Mar. 31, by State Bd. Control, 403 Capitol St., Charleston, 2 story, 56 x 144 ft., brick and stone. $165,000. C. W. Bates, Natl. Bank Bldg., Wheeling, archt.

N. C., Raleigh—Agricultural—March 7, by H. A. Underwood, engr., Commercial Bank Bldg., 5 story, rein.-con., tile, brick and stone, Edenton St., for State Dept. Agriculture. $350,000.

N. C., Salisbury—Schools—March 8, by Bd. Educ. new buildings and additions as follows, (a) 4 new class rooms and gymnasium, (b) 10 new class rooms and auditorium, (c) 12 new class rooms and addition to auditorium, (d) new 12 room school and auditorium, all brick. $150,000. W. C. Northup, 617 Wachovia Bank Bldg., Winston-Salem, archt.

O., Cleveland—Hotel—Gillsy Hotel Co., c/o W. L. Murphy, pres., 1811 East 9th St., taking bids 10 story, 75 x 132 ft., brick, steel and concrete addition, plain foundation, Chester Ave. near East 9th St. $250,000. G. F. Hammond, Center Ridge Rd., archt.

O., Cleveland—School—March 7, by St. Jeromes Catholic Church, 14802 Lakeshore Blvd., 2 story, brick, steel and concrete, plain foundation, East 152nd St. and Lakeshore Blvd. $150,000. W. Koehl, Park Bldg., archt. Noted Jan. 5.

O., Dover—Bank—Walker & Weeks, archts., 1900 Euclid Ave., Cleveland, taking bids 2 story, 65 x 124 ft., brick, steel and concrete, plain foundation, Cherry St., here, for Reeves Banking & Trust Co. $150,000. Noted Nov. 17.

O., New Lebanon—High School—March 8, by Johnsville-New Lebanon Rural School Dist., R.R. 1, 2 story, brick and rein.-con., Eaton Pike. $200,000. E. S. Mountstephen, U. B. Bldg., Dayton, archt.

O., Sardis—School—March 9, by J. W. Rush, clk. Bd. Educ., 2 story, 55 x 75 ft., brick and concrete. O. D. Howard, 8 East Broad St., Columbus, archt.

O., Summerfield—School—March 10, by M. W. McVey, clk. Bd. Educ. 2 story, 62 x 91 ft. brick and concrete. O. D. Howard, 8 East Broad St., Columbus, archt.

O., Van Wert—Church—First Presbyterian Church taking bids 1 story, brick, steel and stone, plain foundation. $200,000. W. H. Nicklas, 1900 Euclid Ave., Cleveland, archt. Noted Oct. 13.

Ind., Ft. Wayne—Apartment—Fairfield Manor Apartment Corp. receiving bids 6 story, 60 x 182 ft., brick, Washington St. $750,000. O. N. Guldin, 2306 Fairfield Ave., pres. C. R. Weatherhogg, Citizens Trust Bldg., archt.

Mich., Albion—School—March 15, by J. B. Foote, secy. Bd. Educ., 2 story, rein.-con., brick and steel, plain foundation. $175,000. R. A. LeRoy, Kalamazoo, archt.

Mich., Ann Arbor—Schools—March 15, by G. J. Ray, secy. Bd. Educ., for rough carpentry, cement work, etc., on 14 room school on Miller Ave.; 12 room in 6th Ward; 20 room on Jones Site. $200,000. Dahl-Stedman Co., 320 North 5th Ave., archts.

Mich., Bath—School—March 9, by E. Rounds, secy. Bd. Educ., 2 story, 68 x 132 ft. agricultural school, brick and steel, plain foundation. $150,000. W. S. Holmes Co., Tussing Bldg., Lansing, archts.

Mich., Detroit—Apartment—P. C. Kroske, archt., 1106 David Whitney Bldg., takes bids about March 15, for 4 story, 50 x 189 ft. brick, steel and stone, plain foundation, Alexandrine Ave., for A. S. La Chapelle, 666 West Willis Ave. $150,000. Noted Feb. 2.

Mich., Lansing—Armory—March 8, by L. Pearson, major Q. M. C. Natl. Guard, Old State Bldg., 1 and 2 story, brick and steel, plain foundation, for state. $150,000. L. W. Fry, Ann Arbor, archt.

Ill., Benton—School—March 7, by Bd. Educ., 2 story, 62 x 156 ft., brick, steel rein.-con. and stone. $150,000. R. E. Smith, pres. Ashby-Ashby & Schultz, 1511 West Jackson Blvd., Chicago, archts. Noted Feb. 2.

Ill., Chicago—Apartment—Minchin-Spitz & Co., archts, 19 West Jackson Blvd., receiving bids 3 story, 125 x 125 ft., rein.-con., brick and steel, Sacramento Blvd. near Independence Blvd. $150,000. Owners name withheld.

Ill., Chicago—Apartment—P. F. Olsen, (archt. and owner), 127 North Dearborn St., receiving bids 3 story, 200 x 206 ft., rein.-con., brick and steel, Hermitage Ave. and Jonquil Terrace. $300,000.

Ill., Chicago—Apartment—W. Pickel, 4128 Sheridan Rd., receiving bids 3 story, 100 x 200 ft., rein.-con., brick and steel, Sheridan Rd. and Irving Park Blvd. $225,000. P. F. Olsen, 127 North Dearborn St., archt.

Ill., Chicago—Apartment—Schmidt, Garden & Martin, archts., 104 South Michigan Ave., receiving bids 3 story, rein.-con., brick and steel, Winthrop Ave. near Argyle Ave., for C. R. Gleason, c/o architects. $300,000.

Ill., Chicago—Apartment—J. S. Smith, 7620 Clyde Ave., receiving bids on separate contracts, 3 story, rein.-con., brick and steel, 6701 Merrill Ave. $200,000. Masonry and carpentry work will be done by day labor. A. G. Lund, 647 West 63rd St., archt.

Ill., Chicago—Apartment—P. G. Stoeckert, 2848 Wilson Ave., receiving bids 3 story, 125 x 150 ft., rein.-con., brick and steel, Whipple Ave. near St. Lawrence Ave. $200,000. P. F. Olsen, 127 North Dearborn St., archt.

Ill., Chicago — Apartment-Hotel — A. Swanson, c/o T. R. Bishop, archt., 38 South Dearborn St., receiving bids 3 story, 84 x 146 ft., rein.-con., brick and steel, Kenmore and Winthrop Aves. $190,000. Noted Oct. 20.

Ill., Chicago—Office, etc.—Marshall & Fox, archts., 721 North Michigan Blvd., receiving bids 7 story, 118 x 125 ft. office building and printing plant, rein.-con., brick and steel, Ontario and St. Clair St., for Poplar Mechanics Magazine, 6 North Michigan Blvd., $400,000.

Ill., Collinsville—High School—March 16, by Bd. Educ., 3 story, 168 x 172 ft., brick, steel, rein.-con. and stone. $150,000. J. W. Kennedy, First Natl. Bank Bldg., East St. Louis, archt. Noted Jan. 26.

Ill., Evanston—Store and Office—March 9, by C. C. Carlson, 701 Church St., 3 story, 50 x 100 ft., brick, steel, rein.-con. and terra cotta. $175,000. J. A. Scanlon, 701 Church St., archt.

Ill., Rockford — Junior High School—April 5 (change of date), by Bd. Educ., 3 story, brick, rein.-con., limestone and terra cotta, on Hockell Ave. $650,000. Peterson & Johnson, Swedish Amer. Bank Bldg., archts. Noted Jan. 26.

Ill., Rock Island—College—March 18, Augustana College, 38th St., and Cervin & Horn, archts., 310 Safety Bldg., brick, stone, rein.-con. and steel college, incl. seminary building, science hall, boys and girls dormitories. $400,000. Noted Sept. 15.

Ill., Waukegan—Hospital—March 8, by Schmidt, Garden & Martin, archts., 104 South Michigan Ave., Chicago, 2 story, brick, rein.-con. and steel, for Victory Memorial Hospital, here. $300,000. Noted July 28.

Wis., Chippewa Falls — High School — March 22, by School Bd., 2 story, 90 x 200 ft., brick, tile and concrete, plain foundation. $170,000 to $175,000. E. J. Hancock, Laycock Bldg., Eau Claire, archt. Noted Feb. 23.

Wis., Wausau—Hospital—March 8, by Berlin, Swern & Randall, archts., 19 South La Salle St., Chicago, 4 and 5 story, brick, tile and concrete, plain foundation, for D. L. Plumer Hospital. A. P. Woodson, McIndoe St., chn. building com. Noted Oct. 6.

Minn., Hibbing—High School—March 11, by Bd. Educ., 3 story, 60 x 140 ft., rein.-con., brick and stone addition, South Hibbing. $150,000. W. T. Bray, 617 Torrey Bldg., Duluth, engr. and archt.

Mo., St. Louis—Service—March 7, by G. F. A. Brueggeman, archt., Liberty Central Bank Bldg., 6 story, brick, rein.-con. and steel, 4th St. and Washington Ave., for Missouri Athletic Assn., 407 Washington Ave. $150,000.

Cal., Burlingame — High School — March 16, by Bd. Trustees San Mateo Union High School Dist., San Matea, 2 story, concrete. $360,000 bonds voted. W. H. Weeks, 369 Pine St., San Francisco, archt. Noted Jan. 12.

Cal., Los Angeles—Hotel—March x, by Central Investment Co., for Biltmore Hotel, 14 story, 5th and Olive Sts., L. Schultz and S. F. Weaver, 17 East 49th St., New York, archts. H. Balcom, 10 East 47th St., New York, engr. Noted Jan. 26.

BIDS RECEIVED

Mass., Greenfield — High School — H. Richardson, chn. building com., opened bids Feb. 25, 3 story, 173 x 225 ft., brick and steel, plain foundation, Federal and Sanderson Sts., from L. D. Taylor, Athol, $278,000; M. J. Walsh & Son, Holyoke, $388,650; Tracy Bros. & Co., Waterbury, $390,436. Noted Feb. 9.

Pa., Monessen—High School—Bd. Educ., 2 story, 138 x 200 ft. from P. H. Kelly Co., 1713 Sansom St. Phila., $266,400; Prahl Constr. Co., Erie, $276,000; Blair & Mack, McKeesport, $282,000. Noted Feb. 16.

Pa., Phila.—Library—F. H. Caven, dir. pub. wks. and Bd. Trustees, City Hall, 2½ story, 229 x 339 ft. rein.-con., brick and steel, 19th St. and Parkway, from P. H. Kelly Constr. Co., Terminal Annex Bldg., $1,367,500; M. Melody & Sons, 1322 Race St., $1,431,970; F. W. Mark Constr. Co., Commercial Trust Bldg., $1,523,350. Noted Feb. 2.

W. Va., Charleston—Schools—Bd. Educ. building (1) 2 story, 100 x 135 ft., brick, stone, concrete and steel, high school, Ruffner Ave., (2) 2 story, 90 x 120 ft., brick, stone, concrete and steel, Glenwood Ave., from L. E. Samples, Charleston, (1) $265,610, (2) $184,881; G. M. Jones, Malden, (1) $274,000; Wise Granite & Constr. Co., Amer. Natl. Bank Bldg., Richmond, Va., (1) $236,900, (2) $166,650; King Lumber Co., Charlottesville, Va., (2) $128,900. Noted Feb. 9.

Mich., Detroit—School—Bd. Educ., 1354 Bway. Ave., 2 story, 62 x 214 ft. and 40 x 40 ft. rein.-con., brick and steel, plain foundation, Martin and Brayden Aves., from M. A. Mahoney, 400 Penobscot Bldg., $193,000, Bloomfield Constr. Co., 428 Ford Bldg., $194,000, J. Bollin, 1259 Book Bldg., $197,800. Noted Feb. 2.

Cal., Sacramento — Capitol — Dept. Pub. Wks., Forum Bldg., opened bids Feb. 14, two, 5 story, steel, granite and stone additions to State Capitol, brick work from W. G. Reed, Walker Bank Bldg., Salt Lake City, Utah, $154,421, Clinton Constr. Co., 140 Townsend St., San Francisco, $166,000, Larsen-Sigrist Co., 180 Jessie St., San Francisco, $168,777; terra cotta from Gladding McBean Co., Crocker Bldg., San Francisco, (a) $220,000, (b) $15,200, N. Clark & Sons, 116 Natoma St., San Francisco, (a) $225,370, (b) $15,178, Matthews Constr. Co., Forum Bldg., (a) $225,000, (b) $15,840; granite from McGilvray-Raymond Co., 634 Townsend St., San Francisco, (a) $768,885, (b) $432,835, (c) $43,560, Matthews Constr. Co., Forum Bldg., (a) $839,165, (b) $59,000, (c) $552,000, excavating work from G. Pollock Co., Forum Bldg., $18,440, C. Miles, $27,660, R. Trost, 26th and Howard Sts., San Francisco, $28,985; steel and iron work, from U. S. Steel Products Co., Rialto Bldg., San Francisco, $225,500, W. B. Kyle Steel & Iron Wks., 74 North Montgomery St., San Francisco, $229,977, Judson Mfg. Co., 817 Folsom St., San Francisco, $230,775; concrete and piling K. E. Parker, 519 California St., San Francisco, $370,900 alternate $369,900, Clinton Constr. Co., 140 Townsend St., San Francisco, $397,800 alternate $391,100, McGilvray Constr. Co., Capitol Natl. Bank Bldg., $427,650, alternate $419,900; cut cast granite, from Benedict Stone Corp., (a) $380,100, (b) $597,000; combination for brick, concrete, excavating, terra cotta and granite, Matthews, Constr. Co., Forum Bldg., $1,695,781. Noted Jan. 19.

CONTRACTS AWARDED

Mass., Boston — Office — Flagg Estate Trust Co., c/o Parker, Thomas & Rice, archts., 177 State St., 8 story, 24 x 71 ft., brick, steel and stone, Winter St., to F. T. Ley Co., 24 Milk St. $150,000.

Mass., Dorchester (Boston P. O.)—Church—St. Ambrose Roman Catholic Church, 246 Adams St., 1 story, 70 x 160 ft., brick, Adams St., to J. F. Griffin Co., 15 Exchange St., Boston. $160,000. Noted Jan. 26.

Mass., Everett—School—Church of Immaculate Conception, 2 story, 77 x 128 ft., brick, Summer St., to Hudson Constr. Co., 6 Beacon St., Boston. $150,000.

Mass., Fall River—Hospital—City, 2 and 3 story, 121 x 327 ft., brick, Hood St., to S. L. Milton, 80 Boylston St., Boston. $248,685. Noted Feb. 2.

R. I., Providence—School—Dept. Pub. Wks., 3 story, 90 x 150 ft., brick, Sacket St., to A. F. Smiley, 202 Oak Hall Bldg., Pawtucket, $198,243. Noted Feb. 16.

N. Y., Baldwin—Schools—Bd. Educ., one addition one new school, brick and stone,

Buildings (Continued)

to Johnson & Miller, Yonkers. $150,000. Noted Jan. 12.

N. Y., New York—Apartments—N. Conforti Contg. Co. 324 East 114th St., two 5 story, brick, steel and stone, plain foundations, Valentine Ave. and East 196th St., by day labor. $200,000 each. Private plans.

N. Y., New York — Apartment — D. P. Robinson, 125 East 46th St., received contract 14 story, brick, steel and stone, plain foundation, 48th St. and Park Ave. Owner's name withheld.

N. Y., New York—Apartment—A. J. Schwarzler, 1340 Brook Ave., 12 story, brick, steel and stone, plain foundation, Clifford Pl., by day labor. $1,000,000. S. J. Kessler, 529 Courtlandt St., archt. and engr.

N. Y., New York—Bank—North River Savings Bank, 31 West 34th St., 2 story, 75 x 100 ft., brick, steel and stone, plain foundation, 206 West 34th St., to Clough-Bourne Corp., 101 Park Ave. Noted Jan. 19.

N. Y., New York—Church—Ludlow & Peabody, archts. and engrs., 101 Park Ave., brick, steel and stone, Park Ave. and 34th St., to L. Weber Bldg. Co., 342 Madison Ave., for Community Church of New York, 61 East 34th St. $150,000. Noted Jan. 26.

N. Y., New York—Hospital—Union Hospital, 198th St. and Tiebout Ave., brick, steel and stone addition, plain foundation, 188th St. between Valentine and Tiebout Aves., by day labor under supervision of A. J. Schwarzler, chn. building com. $150,000. Private plans.

N. Y., New York—Hotel—H. Claman, 241 West 43rd St., brick, steel and stone, plain foundation, 8th Ave. between 43rd and 44th Sts., by day labor. $2,500,000. Private plans. Noted Jan. 19.

N. Y., Watertown—Bank—Jefferson Co. Savings Banks 5 story, brick, steel and concrete, Washington St., to J. Charlebois, Watertown. $250,000.

N. J., West Hoboken—Bank—W. L. Stoddart, archt., and engr., 9 East 40th St., New York, 2 story, 100 x 150 ft., brick, steel and stone, plain foundation, Bergenline Ave. and Hackensack Plank Rd., here, to De Riso Bros., Inc., Hudson Ave., Union, for Hudson Trust Co., 51 Newark St., Hoboken. Noted Jan. 19.

Pa., Phila. — University — Temple University, Broad and Montgomery Sts., 6 story, 100 x 150 ft., stone and marble, Broad and Montgomery Sts., to F. W. Mark Constr. Co., Commercial Trust Bldg. $600,000.

Md., Baltimore—Apartment—G. R. Debnam, Union Trust Bldg., 4 story, 110 x 130 ft. brick, Greenway and St. Paul Sts., to Hicks, Tase & Norris, Inc., 106 West Madison St. $150,000. Noted Jan. 26.

Md., Baltimore—Cathedral, etc.—Convention Protestant Episcopal Church, 24 West Saratoga St., general contract for cathedral and synod hall, Charles St. and University Parkway, to Marrow Bros., Fidelity Bldg. Total $300,000.

Md., Crisfield—Hospital—McCready Memorial Hospital, 60 x 80 ft., 30 x 40 ft. and two 40 x 82 ft. units also 40 x 40 ft. power house, all brick, to North-Eastern Constr. Co., Lexington Bldg., Baltimore. $250,000.

W. Va., Wheeling — Office — Stone & Thomas, Market St., 9 story, Market and Bridge Sts., to R. R. Kitchen Co., Natl. Bank Bldg. $300,000.

Fla., Orlando—Hotel—San Juan Hotel, building hotel to Turner Constr. Co., 244 Madison Ave., New York, $400,000. Noted Jan. 19.

Tenn., Nashville—Asylum—State of Tennessee, Asylum for Feeble Minded, incl. 2 dormitories, administration building, employees building, superintendents residence and power house, to G. B. Howard & Co., 148-B 4th Ave., N. $219.000. Noted Jan. 12.

O., Cincinnati — Office — Ferro Concrete Co., 3rd and Elm Sts., 7 story, 100 x 137 ft., rein.-con. and brick, plain foundation, 4th and Sycamore Sts., by day labor. $250,000. S. S. and G. H. Godley, 11 East 3rd St., archts.

O., Columbus—Dormitory—C. E. Steele, secy. Bd. Directors Ohio State University, 4 story, 63 x 145 ft. girls dormitory (Mack Hall), brick, steel, stone and concrete, to L. L. Le Vegue Co., Builders & Traders Exch., $140,800. Noted Jan. 19.

O., Middletown—Schools—Bd. Educ., 2 story, brick, stone and concrete, Lincoln St., and Quincy High School, 3 story, 100 x 535 ft., to Willing Bros., Bellevue, $622,900. Noted Feb. 2.

O., Ravenna—Store, Office and Theatre—Ravenna Amusement & Theatre Co. 2 story, 62 x 81 ft., brick, steel and concrete, plain foundation, to W. Dunbar Co., 8201 Cedar Ave., Cleveland. $150,000.

Ind., Franklin—School and Gymnasium —Indiana Masonic Home, 2 story, 75 x 137 ft. and 2 story, 40 x 60 ft., brick, concrete and stone, to R. Bryant, Franklin, $175,000.

Ind., Indianapolis—Office—Postal Station Bldg. Co., c/o D. Miller, City Trust Co., 8 story, 107 x 151 ft., rein.-con., brick and steel, Illinois and South Sts., to Hall Constr. Co., Bd. of Trade Bldg.; cost plus percentage basis. Noted Jan. 19.

Ind., Indianapolis—Temple—Ancient Order Nobles of the Mystic Shrine, 3 story, 109 x 200 ft., brick and stucco, Massachusetts Ave. and New Jersey St., to W. P. Jungclaus Co., 825 Massachusetts Ave. Noted Jan. 26.

Ind., New Castle — Asylum — Indiana Village of Epileptics, 12 buildings, brick, to J.I. Barnes, Logansport, $300,117. Noted Dec. 22.

Ind., Terre Haute—Hospital—St. Anthonys Hospital, 1021 South 6th St., 4 story, 45 x 120 ft., brick addition, 1021 South 6th St., to J. A. Schumacher Co., 818 East St. Clair St., Indianapolis. $200,000. Noted Dec. 22.

Mich., Bessemer—Hospital—Bd. Hospital Trustees, Gogebic Co., 3 story, 46 x 200 ft. and 39 x 70 ft. concrete and brick, plain foundation, near here, to P. J. Nickel, Ironwood; $150,000, percentage basis.

Mich., Farmington — Hospital School — Michigan Hospital School, 506 Congress Bldg., Detroit, 2 and 3 story, rein.-con., brick and steel, plain foundation, Grand River Ave., here, to Bryant & Detwiler, 2336 Dime Bank Bldg., Detroit. Noted Jan. 19.

Mich., Port Huron—Church—St. Joseph Parish, Chestnut St., 1 story, concrete, brick and steel, plain foundation, Chestnut St., to Talbot & Meier, 205 Owen Bldg., Detroit. $150,000.

Ill., Chicago—Apartment—J. A. Nyden, archt., 190 North State St., 3 story, 128 x 211 ft., rein.-con., brick, steel and stone, Brompton and Pine Grove Aves., to Nelson & Berg, 7648 Eastlake St., for C. R. Gleason, 111 West Washington St. $450,000. Noted Dec. 29.

Ill., Chicago — Apartment — S. Isaacson, 701 Brompton Ave., 3 story, 110 x 130 ft., rein.-con., brick and steel, 943-53 Edgecomb Pl., to E. W. Edlund, 6520 North Artesian Ave. $160,000.

Ill., Chicago—Apartment—Levy & Klein, archts., 111 West Washington St., 3 story, 110 x 120 ft., rein.-con., brick and steel, Spaulding Ave. near Ainslee Ave., to H. M. Litman, c/o architects. $150,000. Owners name withheld. Noted Feb. 23.

Ill., Chicago—Apartment—Levy & Klein, archts., 111 West Washington St., 3 story, 100 x 150 ft., rein.-con., brick and steel, Sheridan and Winthrop Aves., to H. M. Litman, for A. Solar, both c/o architects. $180,000. Noted Dec. 15.

Ill., Chicago—School—St. Bredans Parish, c/o J. Burns, archt., 64 West Randolph St., 3 story, 122 x 151 ft., rein.-con., brick and steel, 6715-29 South Elizabeth St., to J. McHugh, 7033 South Morgan St. $200,000.

Kan., Humboldt—High School—Bd. Educ., 2 story, 80 x 120 ft., brick, stone and rein.-con., to J. M. Leeper, 601 Clay St., Topeka. Noted Feb. 2.

Neb., Lincoln—High School—Bd. Educ., brick high school, to Olson Constr. Co., 205 Chapin Bldg., $499,000. Noted Feb. 23.

S. D., Canton—High School—Bd. Educ., 2 story, 75 x 200 ft. rein.-con., brick, tile and stone, general contract to Carlson-Snitkey Constr. Co., Sioux Falls, $103,500. Noted Jan. 26.

Mo., St. Louis—Hospital—A. B. Groves, archt., Stock Exch. Bldg., 7 story, 160 x 280 ft., rein.-con., brick and steel, Belleview and Clayton Rds., to Ratermann Bldg. & Constr. Co., 1943 St. Louis Ave., for Sisters of St. Mary, 1536 Papin St. $1,000,000. Noted Jan. 26.

Utah Nephi—High School—Juab School Dist., general contract 2 story, 165 x 210 ft., concrete and brick, concrete and brick foundation, to Tolbor & Co., Provo, $123,000. Noted Feb. 9.

Cal., Porterville—High School—Bd. Educ., general contract, 2 story, brick and concrete, to Trewhitt-Shields Co., Rowell Bldg., Fresno. $209,188. Noted Jan. 19.

Cal., Sacramento — Apartment — A. Gaskill, et al, 3 story, brick and terra cotta, Lot 5, E. F., 7th and 8th Sts., to A. W. Morris, Peoples Bank Bldg., $150,000.

Cal., San Jose—Hospital—San Jose Hospital Assn., general contract for 3 story, fireproof construction, East Santa Clara St., near 14th St., to E. E. Etherton Co., Monadnock Bldg., San Francisco, $172,000. Noted Feb. 23.

Federal Government Work

PROPOSED WORK

Cal., Palo Alto—Hospital—Treas. Dept., Wash., D. C., soon receives bids Pub. Health Serv. Hospital, here. J. A. Wetmore, acting superv. archt. Noted Dec. 8.

BIDS DESIRED

N. Y., Hoffman Island—Buildings, etc.—March 24, by Treas. Dept., Wash., D. C., 4 new buildings and remodeling 7 present structures; also separate bids for mechanical equipment of 4 new buildings and new heating, plumbing and wiring systems or extension to present systems in 12 structures, at U. S. Quarantine Station, here. J. A. Wetmore, acting superv. archt.; adv. this issue.

Ala., Montgomery—Steel Hull—March 20, U. S. Engineer, Montgomery, steel hull for piled river; adv. this issue.

Tex., Laredo—Extension to Workroom, etc.—March 21, by Treas. Dept., Wash., D. C., extension to workroom, etc., U. S. Court House, Post Office and Custom House, here. J. A. Wetmore, acting superv. archt.

BIDS RECEIVED

Fla., Pensacola—Bridge—Spec. 4569—Bureau Yards & Docks, Navy Dept., Wash., D. C., timber bridge at Naval Air Station, here, (1) work complete for 4 pile bent design, except round piling and driving round piling, (2) work complete for 3 pile bent design except round piling and driving round piling. (3) net price per linear foot of each round pile in place measured from point to cut off for following lengths. (a) 25 ft. and less (b) over 25-30 ft. (c) over 30-40 ft. (d) over 40-50 ft. (e) over 50-60 ft. (f) over 60-70 ft., from Doublet & Williams Co., 816 Howard Ave., New Orleans, La., (1) $19,058 (2) $18,953 (3 a, b, c, d, e, and f) $0.66 each; (4) $500; C. H. Turner Co., 17½ South Calafax St., (1) $21,336 (2) $21,336 (3a) $0.62 (3b) $0.58 (3c) $0.59 (3d) $0.57 (3e) $0.63 (3f) $0.73 (4) $359; Simmons-Mayrant Co., Peoples Office Bldg., Charleston, S. C., (1) $22,426 (2) $22,361 (3a) $0.67 (3b) $0.62 (3c) $0.60 (3d) $0.63 (3e) $0.60 (3f) $0.69. Noted Jan. 5.

CONTRACTS AWARDED

D. C., Wash. — Reconditioning — U. S. Shipping Board, reconditioning S.S. Leviathan, to Newport News Shipbuilding and Drydock Co., Newport News, Va., reconditioning and altering for burning fuel oil. $5,595,000, repairs to machinery, $515,000.

Wis., Oconto—Post Office—Treas. Dept., Wash., D. C., Post Office, here, to W. D. Lovell, 1415 8th St., S. E., Minneapolis, Minn., $47,820. Noted Jan. 26.

Miscellaneous

PROPOSED WORK

Hydro Electric Development—Raleigh, N. C.—Carolina Power & Light Co. plans hydro electric development on Yadkin River near Swift Island, between Montgomery and Stanly Counties. P. Tillery, mgr.

Portland Cement—Milwaukee, Wis.—Central Bd. Purch. rejected bids opened Feb. 10, 10,000 bbl. Portland cement. Work will be readvertised later. G. Staal, city engr. Noted Feb. 16.

Gravel Handling Equipment—Wolverton, Minn.—Hendrickson Bros. will be in market about April 1, for gravel handling equipment incl. gasoline cranes, conveyors and bins.

Pumping Equipment—Fair Oaks, Cal.—Carmichael Irrigation Dist. rejected bids opened Feb. 11, furnishing pumping equipment. Will probably readvertise. Noted Feb. 2.

Hydro Line—Ridgetown, Ont.—Howard Twp. having plans prepared hydro line from here to Rondeau, for electric lighting and power. $35,000. E. R. Lawlor, 190 University Ave., Toronto, engr.

Electric Lighting and Power System—Thedford, Ont.—Bosanquet Twp. plans electric lighting and power distribution system. $30,000. J. N. Wilson, 190 University Ave., Toronto, engr.

BIDS DESIRED

Heating and Ventilating Apparatus, etc.—Brooklyn, N. Y.—March 10, by C. B. J. Snyder, supt. School Buildings of Bd. Educ., Municipal Bldg., New York, installing heating, ventilating and temperature regulating apparatus, etc., in P. S. 115, East 92nd St., Canarsie, also in P. S. 187, 12th Ave. between 64th and 65th Sts., here.

Asphalt Plants—Buffalo, N. Y.—Comr. Perkins of Dept. Pub. Affairs receiving bids asphalt plants, 1,500 and 1,800 yd. capacity.

Paving Brick, etc.—Jamestown, N. Y.—March 13, by Bd. Estimate & Review, furnishing and delivering during 1922, vitr. shale paving brick, incl. Hillside No. 2 standard paving bricks and No. 2 standard paving blocks, f.o.b. Jamestown; Portland cement and sewer pipe, to any part of city and also furnishing in carload lots f.o.b. Jamestown. Cost to exceed $10,000.

Street Sweeping and Cleaning Machine—Jamestown, N. Y.—City receiving bids for

Miscellaneous (Continued)

street sweeping and cleaning machine. $6,300.

Dump Cars, etc.—Wheeling, W. Va.—C. L. Hills, 403 Natl. Bank Bldg., in market for 20-30 four yd., Western, 36 in. guage, steel draft sill dump cars; 2 class 14 and 1 class 24 Bucyrus dragline machines.

Road Tractors—Raleigh, N. C.—Wake Co. receiving bids for few road tractors. C. M. Miller, Raleigh, engr.

Coal and Ash Handling System, Boilers, Pump and Chimney—Bay City, Mich.—March 16, at office W. H. Reid, city mgr., coal and ash handling system, water tube boilers, high service pump and brick chimney. Frazier, Ellms & Sheal Co., Cleveland, engrs.; adv. this issue.

Tractor—Ada, Minn.—March 8, by Norman Co., 10-20 hp. or 15-30 hp. tractor, J. A. Erickson, engr.

Grader—Slayton, Minn.—March 6, by Murray Co., two or more small graders of about 1,700 lb. weight, with 8 ft. blade; also one 12 ft. blade grader. E. V. O'Brien, aud.

Road Signs—St. Paul, Minn.—March 6, by Ramsey Co., (1) from 200 to 500 road signs; (2) from 500 to 1,000; (3) from 1,000 to 1,500. G. Ries, co. aud.

Steam Shovel—St. Paul, Minn.—March 6, by Ramsey Co., one ¾ yd. steam shovel. G. Ries, aud.

Grader—Webster, S. D.—March 9, by Day Co., one 12 ft. blade grader. S. H. Egeland, aud.

Tractor—Grand Forks, N. D.—March 7, by Grand Forks Co., one 12-16 h.p. tractor. H. Anderson, aud.

Foundation, etc.—Olympia, Wash.—March 13, by State Capitol Comn. plain foundation and 1st floor walls of main buildings in new capitol group. $400,000. Wilder & White, 50 Church St., New York, archts.

Asphalt Heating Plant—Santa Rosa, Cal.—March 13, by Supervs. Sonoma Co., asphalt heating plant. $7,500. R. P. Smith, Santa Rosa, engr. Noted Jan. 26.

BIDS RECEIVED

Refined Asphalt, etc.—Brooklyn, N. Y.—E. Riegelmann, boro pres. Boro Hall, opened bids Feb. 24, furnishing and delivering (1) 400,000 gal. refined asphalt in liquid form, (2) 4,500 cu.yd. binder stone, (3) 10,000 cu.yd. asphalt sand, (4) 2,000 net ton limestone or other suitable inorganic dust, (5) 6,500 cu.yd. paving sand, (6) 300 ton paving pitch, (7) 1,000 cu.yd. paving gravel, (8) 8,000 bbl. Portland cement, (9) 50,000 Grade 1 granite paving blocks 5 in. deep, (10) 50,000 asphalt paving blocks 2½ in. deep, (11) 50,000 wood paving blocks, (12a) 5,000 cu.yd. 1½ in. gravel, (12b) 5,000 cu.yd. 1½ in. broken stone, (13) 2,000 cu. yd. sand and grit mixture, (14) 4,000 cu. yd. steam cinders, from Warner Quinlan Co., 79 Wall St., New York, (1) $0.067 per gal.; Standard Oil Co. of New York, 26 Bway., New York, (1) $0.0637; Barber Asphalt Paving Co., 233 Bway., New York, (1) $0.077; Calvin Tomkins Co., 30 Church St., New York, (2) $2.04; New York Trap Rock Corp., 101 Park Ave., New York, (2) $2.23, (4) $7.96, (12b) $2.73; Z. Mahoney, 557 46th St., (3) $1.245; Hygrade Builders Supply Co., 6th St. and 2nd Ave., (3) $1.34, (5) $1.24, (7) $2,890, (8) $2.64, (12b) $2.54, (14) $0.59; J. W. Smith Contg. Co., (5) $1.40; J. C. Dempsey, (5) $1.48; Barrett Co., 40 Rector St., New York, (6) $22.47; F. J. Lewis Mfg. Co., (6) $25.70; Rosoff Sand & Gravel Corp., 152 West 42nd St., New York, (7) $2,455, (12a) $12,095, (13) $2.60, $2.65, total $5,250; Washington-Bulkley Co., 666 Kent Ave., (7) $2,975, (12a) $2.53, (13) $2,725; Burroughs Building Material Co., Johnson Ave., (8) $2.54; Audley Clark Co., (8) $2.63; M. M. Canda, 184 3rd St., (8) $2.63; J. Leopold & Co., Inc., Woolworth Bldg., New York, (9) $138; J. Meehan & Son, 74 Cortlandt St., New York (9) $141; Rockport Granite Co., 13 Park Row, New York, (9) $142; Hastings Pavement Co., 25 Broad St., New York, (10) $4,578; Amer. Creosoting Co., 17 Battery Pl., New York, (10) Spec. A, $2,947, Spec. B, $3,200, Spec. C, $2,845; B. Turecamo Contg. Co., 8706 Bay 12th St., (12b) $2.44, (14) $1; F. Starr Contg. Co., 220 West 42nd St., New York, (12a) $2.49; Ames Building Material Co., Inc., 3437 Kingsbridge Ave., New York, (13) $3.11; Empire Carting Co., 21 Park Row, New York, (14) $1.

Heating and Ventilating Apparatus, etc.—New Brighton, N. Y.—C. B. J. Snyder, supt. School Buildings of Bd. Educ., Municipal Bldg., New York, opened bids Feb. 27, installing heating and ventilating apparatus in Curtis High School, Hamilton Ave. and St. Marks Pl., here, from D. J. Rice, 405 Lexington Ave., New York, $58,480, J. E. Kahn, 224 West 20th St., New York, $61,419, Federal Heating Co., 300 Madison Ave., New York, $61,491; temperature regulation apparatus, etc., in additions to and alterations to above, from Johnson Serv. Co., 118 East 28th St., New York, $4,998; Natl. Regulator Co., 166 Lexington Ave., New York, $5,349. Noted Feb. 16.

Tar, etc.—Trenton, N. J.—Bd Freeholders Mercer Co. opened bids Feb. 21, furnishing 36,000 gal. tar, from T. Tobish, 40 Bryn Mawr Ave., $0.19 per gal., Barrett Co., 17 Battery Pl., New York, $0.2065; 26,000 gal. asphaltic emulsion, from Headley Good Roads Co., Franklin Trust Bldg., Phila., $0.2225; 10,000 gal. cut back asphalt, from Warner Quinlan Co., 79 Wall St., New York, $0.17. Noted Feb. 16.

Paving Brick—Detroit, Mich.—For 1,000,000 four in. paving brick, wire cut lug, from Metropolitan Paving Brick Co., Canton, O., $36 per M.; Medal Paving Brick Co., 16311 Saranac Rd., Cleveland, O., $36.90; Peebles Paving Brick Co., New Boston, O., (Portsmouth P. O.), $37.

Tunnel—Houston, Tex.—City opened bids rein.-con. tunnel under Southern Pacific tracks on North Main St., (1) alternate a, (2) alternate b, lump sum bids from Walling, Haralson & Adams, Houston, (1) $139,875, (2) $146,433, Sumner-Sollit Co., Natl. Bank Commerce, San Antonio, (1) $157,371; guaranteed costs bids from Walling, Haralson & Adams, Houston, (1) $150,000, (2) $157,000, Sumner-Sollit Co., Natl. Bank Commerce, San Antonio, (1) $153,000, D. Hall, 613 Carter Bldg., (1) $162,000, (2) $155,000. Noted Jan. 26.

CONTRACTS AWARDED

Grain Elevator—Buffalo, N. Y.—Archer-Daniels Linseed Co., 29th Ave. S. E., along tracks of Great Western Ry., general contract 56 x 166 ft. grain elevator with head house 175 ft. above dock, rein.-con., to Fegeles Constr. Co., 706 1st Ave. N., Minneapolis, Minn. $300,000.

Broken Stone and Screenings—Long Island City, N. Y.—M. E. Connolly, pres. Queens Boro, furnishing and delivering 24,000 cu.yd. broken stone and screenings, to F. Starr Contg. Co., 220 West 42nd St., New York, $2.83½; 4,500 cu.yd. sand in 1st, 2nd, 3rd and 4th Wards and 500 cu.yd. sand in 5th Ward to E. B. Simpson, Hempstead Turnpike, $1.44 and $1.75 respectively; 35,000 asphalt blocks, to Hastings Pavement Co., 25 Broad St., New York, $95 per M; 40,000 wood paving blocks, to Amer. Creosoting Co., 17 Battery Pl., New York, $17,564; 450,000 gal. road oil for cold application, 100,000 gal. bituminous macadam binder and 800 ton asphaltic cement, to Standard Oil Co. of New York, 26 Bway., New York, $0.0498, $0.0604 and $21.48 respectively; 175,000 gal. road oil for hot application, to Warner-Quinlan Co., 79 Wall St., New York, $0.0437. Noted Feb. 23.

Borings—New York, N. Y.—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., borings to investigate character of bed rock and materials overlying it at High Bridge in Boroughs of Manhattan and Bronx, to Sprague & Henwood, Inc., Monsey and New York Sts., Scranton, Pa., $14,940. Noted Feb. 9.

Deck Building — Phila., Pa. — Dept. Wharves, Bourse Bldg., 1 and 2 story, 70 x 480 ft., rein.-con., brick and steel deck building, on Pier 4, Chestnut St. and Delaware River, to G. H. Evans Inc., 109 North 13th St., $36,740.

Stadium—Nashville, Tenn.—Vanderbilt University, rein.-con. stadium on athletic field, to Gould Constr. Co., Independent Life Bldg., $150,000. Noted Jan. 5.

Gas Mains—Green Bay, Wis.—Wisconsin Pub. Serv. Co., 559 Marshall St., Milwaukee, will build extensions to gas mains next summer, incl. tie-in mains at Eliza and Roosevelt Sts., etc., by day labor. $95,000. J. Pulliam, c/o owner, engr.

Gas Holder and Foundations—Oakland, Cal.—Pacific Gas & Electric Co., 445 Sutter St., San Francisco, constructing 6,000,000 cu.ft. steel tank gas holder, 219 ft. high, Castro St., to Bartlett-Hayward Co., 220 Scott St., Baltimore Md., $600,000; foundations for same, involving 2,800 cu.yd. concrete and 4,500 wood piles, to Tibbitts-Pacific Co., 16 California St., San Francisco, $60,000.

Stadium — Pasadena, Cal. — M. Hunt, archt., Hibernian Bldg., Los Angeles, rein.-con. stadium, at Arroyo Seco, to W. A. Taylor, 966 Elizabeth St., for Pasadena Rose Tournament Assn., Chamber of Commerce Bldg. $300,000; cost plus percentage basis. Noted Jan. 27, 1921.

Pipe—Ottawa, Ont.—For 3,100 ft. 51 in. steel pipe, to Canadian Des Moines Steel Co., Chatham, $51,755.

OFFICIAL PROPOSALS

Bids: March 8.

Reconstruction of Ocean Avenue

Sea Bright, N. J.

Notice is hereby given that sealed bids will be received by the Board of Chosen Freeholders of the County of Monmouth for the reconstruction of the country road or highway known as Ocean Avenue in the Boroughs of Sea Bright and Monmouth Beach in the County of Monmouth and State of New Jersey with sheet asphalt, and opened and read in public at the rooms of the said Board, Court House, Freehold, New Jersey, on Wednesday, March 8, 1921, at 11 o'clock, a.m.

Drawings and specifications for the proposed work, prepared by J. Wesley Seaman, civil engineer, under the supervision and direction of George K. Allen, county engineer, have been filed in the office of the said J. Wesley Seaman, civil engineer, at 192 Broadway, Long Branch, N. J., and may be inspected by prospective bidders during business hours. The standard proposal forms will be furnished on application by the last named engineer.

Bids must be made on the standard proposal form in the manner designated therein and required by the specifications; must be enclosed in sealed envelopes bearing the name and address of the bidder and name of proposed work on the outside, addressed to the Board of Chosen Freeholders of the County of Monmouth and must be accompanied by a certified check for a sum equal to ten per cent of the amount bid on the work, payable to the order of the Collector of the County of Monmouth, and a surety company's certificate stating that such surety company will provide the bidder with the required bond, and must be delivered at the place and on the hour above named.

The Board of Chosen Freeholders of the County of Monmouth reserves the right to reject any or all bids if deemed to the best interests of the county so to do.

By order of the Board of Chosen Freeholders of the County of Monmouth.

BRYANT B. NEWCOMB,
Director.

Attest:
GEORGE W. PATTERSON,
Clerk.

Bids: Mar. 6.

Bridge Construction

Mercer, Pa.

Sealed proposals will be received by the County Commissioners of Mercer County, Pennsylvania, at their office at Mercer, Pa., until 11:00 o'clock a.m. on the 6th day of March, 1922, at which time proposals will be publicly opened and read for the construction of the following bridges:

BRIDGE NO. 2305, FRUIT AVENUE VIADUCT, FARREL, PA.
Reinforced concrete Girder Viaduct, 6-50 ft. spans, with 24 ft. roadway and two 6 ft. sidewalks.
Alternate bid for dirt or slag fill 335 ft in length with 5 ft. culvert, including 30 ft. paved street and 2-5 ft. sidewalks.

BRIDGE NO. 2001, OVER OTTER CREEK, COOLSPRING TOWNSHIP.
Reinforced concrete 50 ft. span.

BRIDGE NO. 2002, OVER COOLSPRING CREEK, COOLSPRING TOWNSHIP.
Reinforced concrete 50 ft. span.

BRIDGE NO. 2103, OVER YELLOW CREEK, JACKSON TOWNSHIP.
Reinforced concrete 50 ft. span.

Each proposal must be accompanied by a certified check in an amount equal to 5% of the total amount of the proposal and not less than $500.00.

The Commisioners will reserve the right to reject any and all bids. Proposals will be received only upon those furnished by the Commissioners.

Plans, specifications, proposal, etc., may be examined at the Commissioners' Office at Mercer, Pa., or may be obtained from Frank P. Graham, County Engineer, at Grove City, Pa., for the sum of $5.00 for each set of plans.

NORMAN I. BROMLEY,
Clerk.